

Step 6: Where can I find the PUD's special pricing deals?

Snohomish County PUD works with many retailers throughout the county to provide special pricing on efficient products. The most current list is available on our website.

SPECIAL PRICING OFFERS:

- Up to \$1 off CFL Bulbs
- Up to \$3 off LEDs Bulbs
- \$5 to \$7 off Energy Star Light Fixtures
- Up to \$7 off Efficient Showerheads

Check out our limited-time special offers and participating retailer locations at our website: snopud.com/specialoffers. Or call our Energy Hotline!

Step 7: Disposing of CFLs

LEDs that burn out can be thrown in the trash. However, because CFLs contain trace amounts of mercury, all burned-out CFLs should be recycled and not put into the garbage. Burned-out, unbroken CFLs can be recycled for free at any PUD local office (Everett, Arlington, Monroe, South County, Snohomish and Stanwood), Snohomish County Solid Waste facility (also accepts fluorescent tubes) and select local retailers (The Home Depot and Bartell Drugs). Please visit our website at snopud.com/cflrecycle for more information and the most current list of recycling locations.

What should I do if a CFL breaks?

If you break a CFL, care should be taken when cleaning it up because it contains trace amounts of mercury. Clean-up/disposal instructions can be found on our website at snopud.com/cflrecycle or on the EPA's site at epa.gov/cfl. The EPA site also has more information about CFLs in general.

Questions?

Email ce@snopud.com

Visit snopud.com/efficientlighting

Call our Energy Hotline 425.783.1700

(Monday through Friday, 8 AM to 5 PM)

Toll-free in Western Washington and outside the Everett local calling area at: 1-877-783-1000



P.O. Box 1107
Everett WA 98206-1107



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LEDs and CFLs offer
bright savings!

LIGHTING

EFFICIENT LIGHTS LAST LONGER &
USE MUCH LESS ENERGY



smart rewards smart rebates

SNOHOMISH COUNTY PUD

Choosing a light bulb can be overwhelming these days! So we've provided a step-by-step guide to assist you with your lighting choices. We hope this resource will help you to make informed decisions about which lighting option is best for you and your loved ones.

Step 1: What are your options?

The lighting industry is continually changing, especially with the incorporation of so many new and exciting lighting technologies. The main choices that currently exist are the traditional incandescent and halogen bulbs along with energy-saving CFL and LED bulbs. The initial purchase price of CFLs and LEDs is higher than the traditional bulbs but the much longer life and energy-savings make the CFLs and LEDs a better value.

Step 2: How will you use it?

Energy-saving CFLs and LEDs now come in a variety of shapes and sizes for almost any type of fixture.

Placement Choices:

 <p>Spiral</p> <ul style="list-style-type: none"> + Table/floor lamp + Ceiling + Wall sconce + Outdoor covered 	 <p>A-line (traditional)</p> <ul style="list-style-type: none"> + Table/floor lamp + Ceiling + Wall sconce + Outdoor covered
 <p>Reflector (Flood)</p> <ul style="list-style-type: none"> + Recessed can 	 <p>Globe</p> <ul style="list-style-type: none"> + Vanity

Dimmables

Dimmable fixtures require dimmable lights. Check the bulb packaging because not all efficient lights are dimmable. Dimmable efficient lights work differently than incandescent bulbs. They maintain light color more

consistently and dim to 10% to 40% of their original brightness. Dimmable bulbs typically come in soft white color temperature. Look for dimmable LEDs that work with standard incandescent dimmers.

Three-Way Bulbs

Three-way CFLs tend to be a little taller than standard incandescent bulbs. This technology is new so prices are still fairly high.

Motion Detectors

Many CFLs do not work with motion detectors because of the frequent cycling between on and off. LEDs are not affected by the cycling on/off issue. Always check the packaging to see if the efficient light is designed for use with motion detectors.

Step 3: How much light do you want?

Lumens are the real measure of light output (that is, how bright a light is). The chart below shows how many lumens the average light bulb has (higher = brighter).

	Lumens	LED	CFL	Incandescents
BRIGHTER	450	6–9 watts	9–13 watts	40 watts
	800	8–12.5 watts	13–15 watts	60 watts
	1100	13 watts	18–25 watts	75 watts
	1600	16–20 watts	23–30 watts	100 watts
	2500	25–28 watts	30–52 watts	150 watts

Step 4: What kind of light do you like?

Efficient lights are available in a variety of **colors**, ranging from yellowish (“warm”) to white to bluish-white light (“cool”). Kelvin numbers indicate the color temperature of a light. The higher the number, the more white/bluish the light color. A lower number means a softer, yellowish color.

Common Color Name	Best Uses	Kelvin Number
Warm White, Soft White	Anywhere you prefer the standard color of incandescent light bulbs	2700K to 3000K
Cool White, Bright White	Good for kitchens and work spaces	3500K to 4100K
Natural or Daylight	Good for reading	5000K to 6500K

Step 5: What type of investment are you willing to make?

You will save the most by using energy-efficient light bulbs in fixtures that are used most often, like porch or living room lights. Consider the following comparison of three equivalent lights:

<p>9-watt LED \$16/Yr Lasts 25 yrs</p> 	<p>14-watt CFL \$24/Yr Lasts 7-10 yrs</p> 	<p>60-watt incandescent \$104/Yr Lasts 1 yr</p> 
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Annual average cost for 10 bulbs each used 5 hours per day

An easy way to compare lights when shopping is to use the **Lighting Facts label** on all packaging. It lists lumens, estimated energy costs, lifespan and appearance.

Front of LED package

Back of LED package

Brightness
800
lumens

Estimated Energy Cost
\$1.20
per year

Lighting Facts Per Bulb

Brightness **800 lumens**

Estimated Yearly Energy Cost **\$1.20**
Based on 3 hrs/day, 11c/kWh
Cost depends on rates and use

Life
Based on 3 hrs/day **22.8 years**

Light Appearance
Warm Cool
2700 K

Energy Used **10 watts**

For more information, visit snopud.com/efficientlighting