





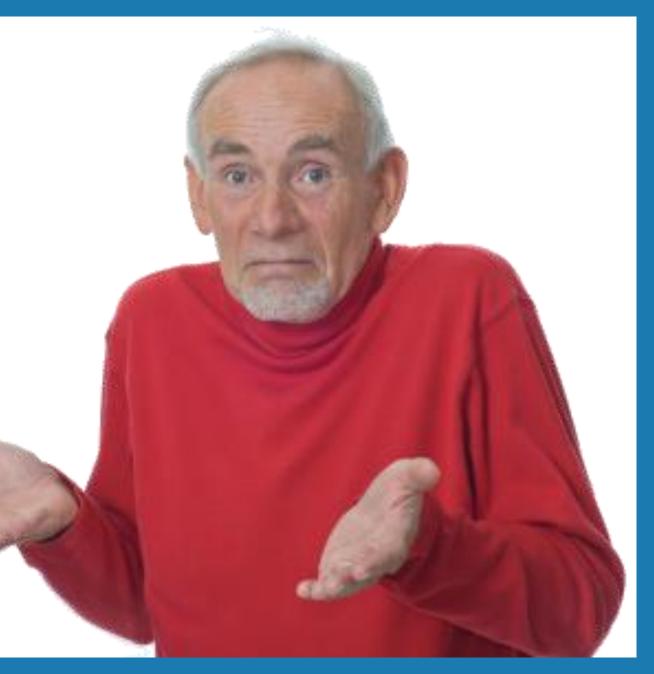




■ energyconnection **■**

YOUR LINK TO ENERGY SAVINGS

MontgomeryEnergyConnection.org



WATT IS ENERGY CONSERVATION?



not using energy or using less energy

WATT IS ENERGY EFFICIENCY?

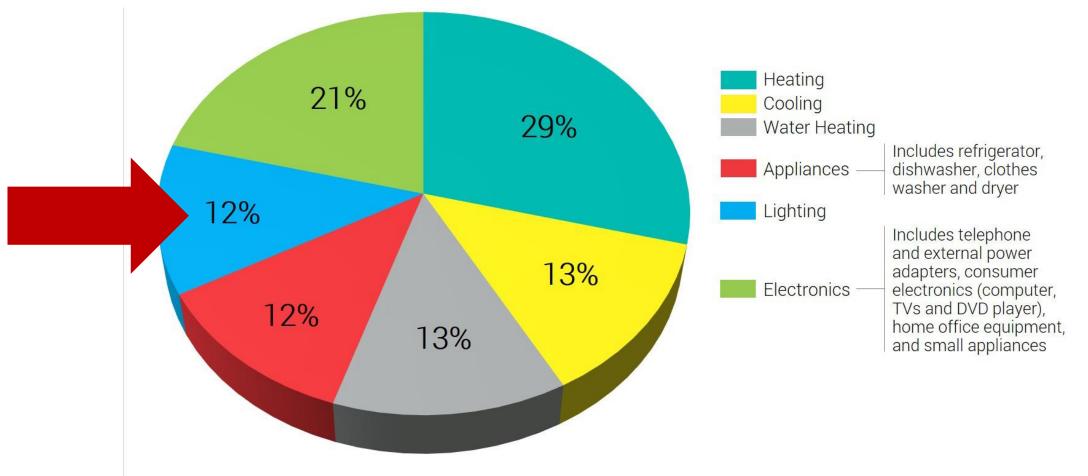
not wasting energy by doing more with the same amount of energy or switching technologies



WATT IS YOUR UTILITY BILL?



WHERE DOES YOUR MONEY GO?



Source: Typical House Factoid Memo. Lawrence Berkeley National Laboratory. April 2013.

WHAT THE WATT?



Measurement of energy

WHAT IS A LUMEN?

Measurement of brightness



LED LUMENS TO WATTS CONVERSION CHART

BRIGHTNESS IN LUMENS	200+	400+	700+	900+	1300+
STANDARD	25W	40W	60W	75W	100W
HALOGEN	18W	28W	42W	53W	70W
CFL	6W	9W	12W	15W	20W
LED	4W	6W	10W	13W	18W

WATT DOES IT MATTER?

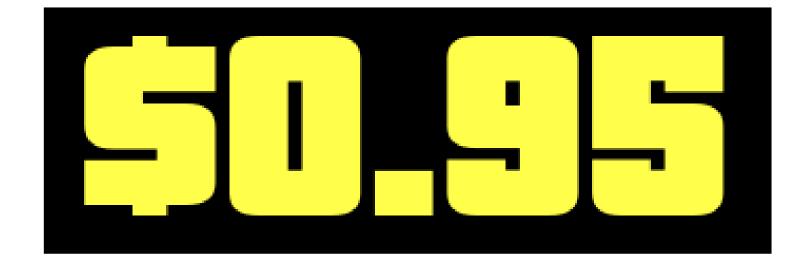






60-WATT INCANDESCENT BULB 800 LUMENS





https://www.1000bulbs.com/

13-WATT CFL BULB 800 LUMENS





https://www.1000bulbs.com/

9-WATT LED BULB 800 LUMENS





https://www.1000bulbs.com/

COST MATTERS

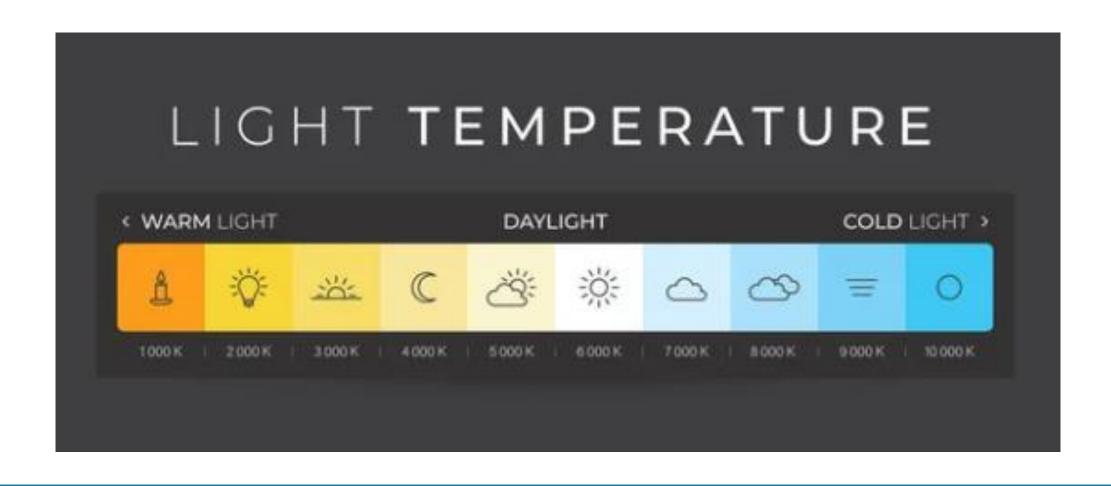
	Incandescent	CFL	LED
Watts	60 W	13 W	9 W
Brightness	800 lumens	800 lumens	800 lumens
Hourly Energy Cost	\$.006	\$.0013	\$.0009
Lifespan	1,200 hours/1.3 months	7,500 hours/8 months	25,000 hours/2.8 years
Energy Cost per lifetime	\$7.12	\$9.75	\$22.50
Cost per bulb	\$0.95	\$3.14	\$1.00
Total Cost per lifetime	\$8.15	\$12.89	\$23.50
Bulbs needed to equal 1 LED	20.8 bulbs	3.3 bulbs	1 bulb
REAL COST	\$169.79	\$42.97	\$23.50

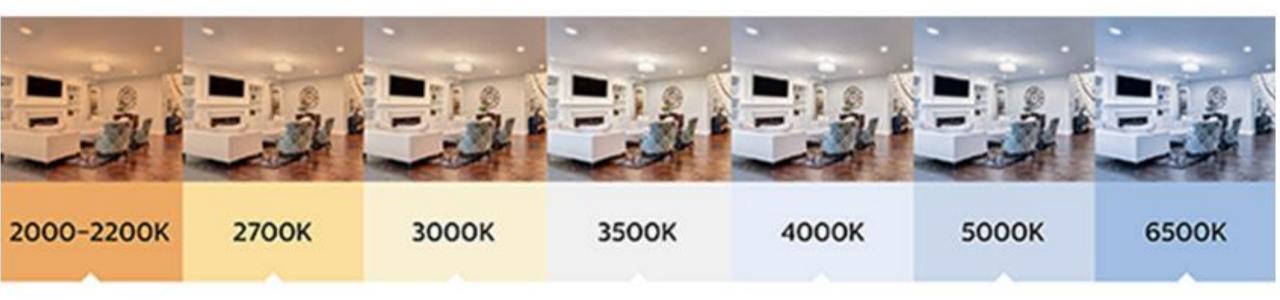
LOOK FOR THESE



Lighting Facts Per Bulb					
Brightness	820 lumens				
Estimated Yearly Energy Cost \$7.23 Based on 3 hrs/day, 11¢/kWh Cost depends on rates and use					
Life Based on 3 hrs/day	1.4 years				
Light Appearance Warm	Cool				
2700 K					
Energy Used	60 watts				

COLOR MATTERS





WARM OR SOFT WHITE 2700-3000 Kelvin

Cozy, Inviting, Warm Glow

Living Room • Family Room
 Bedroom

NEUTRAL OR COOL WHITE 3500-4100 Kelvin

Clean, Efficient, Radiant Crisp Glow

- Kitchen Bathroom
- Basement Garage

SUNLIGHT OR DAYLIGHT 5000-6500 Kelvin

Alert, Active Vibrant Glow

- Reading Hobby Room
- Detail Oriented Activities

SHAPE MATTERS







- LED Light Bulbs that Change Color
 - Phillips HUE, Govee, GE
- Voice-Command LED Lighting
 - Apple's Siri, Amazon's Alexa, Microsoft's Cortana, or Google's Assistant
- LED Light Bulbs with Occupancy Sensors
- LED Light Bulbs with Bluetooth Speakers
- LEDs with Security Cameras



