



The simple choice for energy efficiency.



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# DIY Lighting with ENERGY STAR

If you're planning a home renovation, an efficiency upgrade or looking to enhance your home's ambience, remember to think about lighting! With so many options in the lighting aisle, choosing the right bulbs can seem complicated. ENERGY STAR makes it easy—just look for the ENERGY STAR label. Use this guide to help prepare for your change of scenery – answer these questions, make your list, and start shopping!

- 1. Which light bulbs do you want to switch out?** Think about all the fixtures in your home that still use a traditional incandescent or halogen bulb. Switch out the ones you use the most for the greatest savings.
- 2. What type of lamp(s) or fixture(s) do you have?** Here's a handy list of what type of bulb works for each fixture type:

TABLE OR FLOOR LAMPS					
		A SHAPE			
PENDANT FIXTURES					
		A SHAPE	GLOBE	MR16	CANDLE
CEILING FIXTURES					
		A SHAPE	CANDLE		
CEILING FANS					
		A SHAPE	CANDLE		
WALL SCONCES					
		A SHAPE	GLOBE	CANDLE	
RECESSED CANS					
		SPOT	FLOOD		
ACCENT LIGHTING					
		SPOT			

- 3. How bright do you want your light to be?** The higher the lumens, the brighter the light. We used to judge brightness by wattage. But watts are simply a measure of power—the amount of electricity a bulb needs to

## Did you know?

ENERGY STAR LED certified bulbs:

- Use 90% less energy than incandescent bulbs
- Save \$75 per bulb
- Last 25 times longer than incandescent bulbs; up to 22 years
- Are independently certified and have undergone extensive testing

operate. The light output or brightness of the bulb is actually measured in lumens. More lumens means more light. To save energy and money, find the bulbs with the lumens you need, and then choose one with the lowest wattage.

Old Incandescent Bulbs (Watts)	ENERGY STAR Bulb Brightness (Minimum Lumens)
40	450
60	800
75	1,100
100	1,600
150	2,600

Use this chart to determine how many lumens you need to match the brightness of your old incandescent bulbs.

4. **What light appearance do you want?** Selecting the right bulb helps set the mood in a room. Light bulbs come in a range of colors, from 2700K for warm white/soft white light, to 6500K for natural or daylight appearance.



5. **Do you want to be able to dim your lights?** If you have dimmers, look for bulbs that say “dimmable” on the packaging. You’ll also want to be sure the bulbs are compatible with your existing or new dimmer switch - the bulb package or manufacturer’s website will provide a list of compatible dimmers. Try upgrading an existing dimmer switch to one designed specifically to work with efficient LED lighting.

## ROOM AMBIENCE: IT’S ALL ABOUT ENERGY STAR LED LIGHTING

ENERGY STAR teamed up with interior design guru and YouTuber Nikki Boyd to give you some great lighting tips. Check out Nikki’s video at [energystar.gov/LED](http://energystar.gov/LED) to see how you can alter the mood of your home with energy-efficient LED lighting.

Nikki will show you how ENERGY STAR LED bulbs come in different light appearances to suit your needs. The colors range from a soft, warm glow (similar to the light that incandescent bulbs emit) to a whiter, crisper light, for activities like reading.

Use this chart to help you choose the best light bulbs for your space.



ROOM	DESIRED FEEL: COZY/ ENERGIZING/NATURAL	# OF BULBS	TYPE OF FIXTURE	BRIGHTNESS (LUMENS)	LIGHT APPEARANCE (WARM OR COOL)
Entryway					
Kitchen					
Living Room					
Bedroom					
Bathroom					

For more resources on choosing the right lighting that will save you energy and money, visit:

[www.energystar.gov/LED](http://www.energystar.gov/LED)

[www.energystar.gov/lighting](http://www.energystar.gov/lighting)

[www.houzz.com/ideabooks/47201331/list/the-case-for-switching-to-led-lightbulbs](http://www.houzz.com/ideabooks/47201331/list/the-case-for-switching-to-led-lightbulbs)

ENERGY STAR® is the simple choice for energy efficiency. For more than 20 years, EPA’s ENERGY STAR program has been America’s resource for saving energy and protecting the environment. Join the millions making a difference at [energystar.gov](http://energystar.gov).

