

DIY Lights OFF FOR EARTH

Take Action for Earth! Calculate how turning a few lights off for one extra hour each day can help save energy. Challenge your family and community to also turn their lights off. The savings add up!

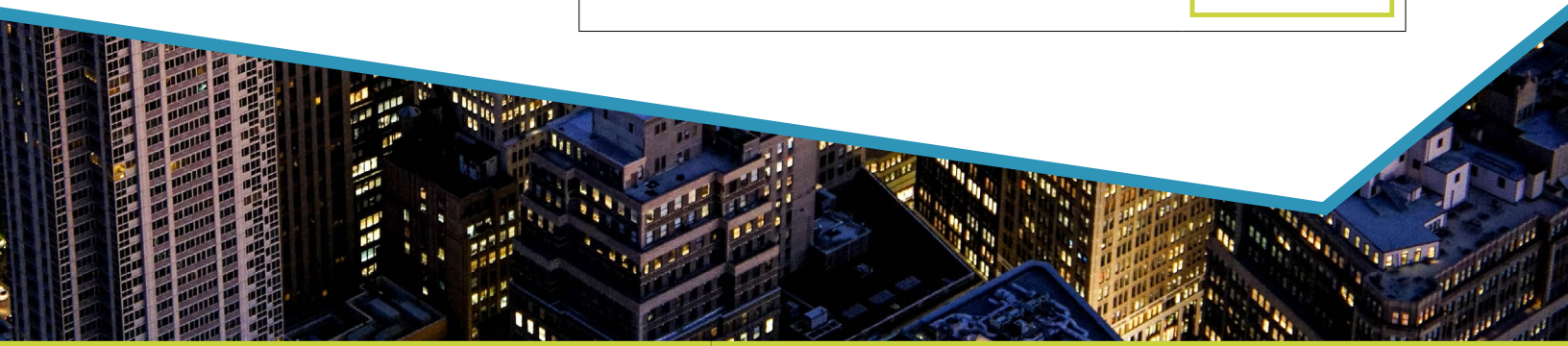
1 CALCULATE TOTAL WATTAGE

Write the location of each light bulb that you will be turning off for one extra hour each day in the left column.

In the right column, write the watts number printed on each light bulb.

Stay safe! Turn the light off and wait a few minutes to make sure the bulb is cool before you touch it.

BULB LOCATION	WATTS
TOTAL WATTAGE = <input style="border: 2px solid green; width: 100px; height: 30px;" type="text"/>	

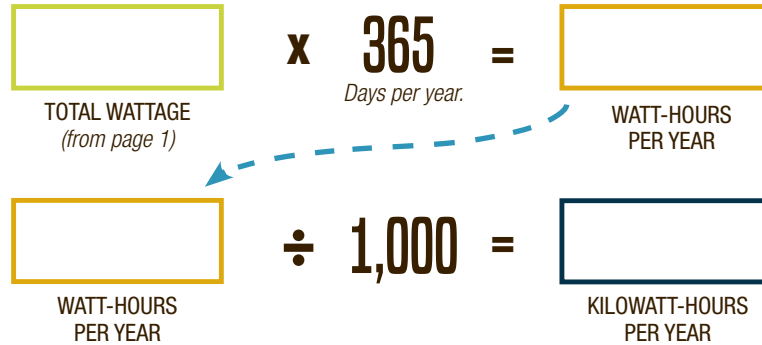




2 CALCULATE ENERGY SAVED

Next, figure out the total amount of kilowatt hours (kWh) saved each year if you keep turning off all the light bulbs you listed in the first table. Simply multiply the total watts you calculated by 365 (days per year) and then divide by 1,000 (kilo = 1,000).

Power companies measure electricity in kWh.



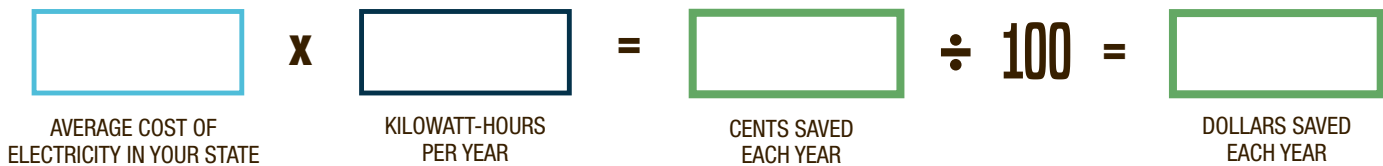
3 CALCULATE YOUR ENERGY SAVINGS!

Now, figure out how much money you saved by opening Table 2.10. Average Price of Electricity by State (https://www.eia.gov/electricity/annual/html/epa_02_10.html) provided by the U.S. Energy Information Administration.

This website contains information about electricity usage in the United States. Under the first column, "Census Division and State," scroll down until you find the state where you live. Write the number from the "Residential" column to the right of your state here (this number is in cents per kilowatt-hour): _____.

Note: If you cannot find this data, then use 15 cents as your average per kilowatt-hour in your state. Keep in mind that this number is in cents per kilowatt-hour. If you want to know what the number is in dollars, you will need to divide this number by 100.

Use the boxes below to multiply the number you wrote above (average cost of electricity for your state) by the kilowatt-hours you calculate in Step 2. **How much money would you save?**



IT MAKES A DIFFERENCE

If 20 families turn their lights off for an extra 52 hours a year, they could save enough energy to power an entire house for a month!

4 COMPARE YOUR ENERGY SAVINGS

Below are estimates based on average energy costs. These prices may change over time.



\$0.44

AVERAGE REFRIGERATOR USE PER DAY

\$0.84

BAKING A TURKEY IN AN OVEN



\$3.55

DRIVING AN ELECTRIC CAR 100 MILES

\$5.00

AVERAGE DAILY COST OF RUNNING A CENTRAL AIR CONDITIONER DURING THE SUMMER MONTHS

\$120

AVERAGE COST TO POWER AN ENTIRE HOUSE FOR A MONTH



5 SAVE EVEN MORE ENERGY!

Visit the site linked below to discover more ways you can help save energy:
<https://www.energy.gov/energysaver/energy-saver>

DID YOU KNOW?

*Since 2007, millions of people across 180 countries participate in **Earth Hour** by turning the lights in their homes off from 8:30 p.m.-9:30 p.m. to show their commitment to secure a brighter future for people and the planet. This annual event usually takes place on the last Saturday in March.*