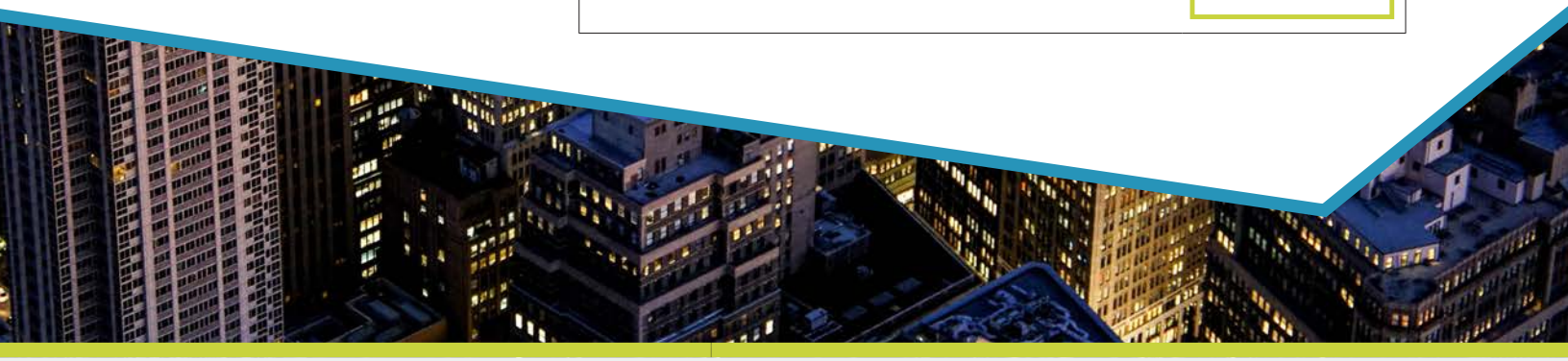
DIY Lights OFF FOR EARTH

Take Action for Earth! Challenge your family and/or community by calculating how turning lights out for one hour per month, week, or a day, could help save energy. The savings add up!

1 CALCULATE TOTAL WATTAGE

List bulbs that will be turned off and record the **watts** used for each. Add total wattage for all bulbs.

BULB LOCATION	WATTS
TOTAL WATTAGE =	



2 DETERMINE HOW OFTEN LIGHTS ARE OFF PER HOUR

Checkmark selction to help keep track.

☐ 1 hour-per-month	= 12 hours-per-year
☐ 1 hour-per-week	= 52 hours-per-year
☐ 1 hour-per-day	= 365 hours-per-year

3 CALCULATE ENERGY SAVED

Calculate energy saved in kilowatt hours (kWh).
Multiply total wattage by hours per year.
Power companies measure electricity in kWh.

	x		=	
TOTAL WATTAGE		HOURS		WATT-HOURS

	÷	1,000	=	
WATT-HOURS				KILOWATT-HOURS

MAKES A DIFFERENCE

For example, if 20 families turn their lights out for an extra 52 hours a year, they would save approximately enough energy to power an entire house for a month!

4 COMPARE YOUR ENERGY SAVINGS!

Calculate how much money you saved and compare to the following examples: *Hint: The average price of electricity in the U.S. is about 13.2¢ per kWh.*

3.6 kWh BAKING A CHICKEN IN AN OVEN

4.32 kWh REFRIGERATOR USE PER DAY

33.7 kWh DRIVING 25 MILES

122.5 kWh USE OF HOME AIR CONDITIONER

365 kWh POWERING A HOUSE FOR 12 DAYS

DID YOU KNOW?

Since 2007, millions of people across 180 countries turn their lights off for one hour, when they would normally be in use. This event is known as ***Earth Hour*** *and usually takes place on the last Saturday in March from 8:30 p.m–9:30 p.m.*