

# Consumer Outreach: National Energy Foundation Community in Action Workshops

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# National Energy Foundation

Founded in 1976

A 501 (c) (3) non-profit educational organization dedicated to the development, dissemination, and implementation of supplementary educational materials, programs, products and services.

Resources for education relate primarily to energy, water, natural resources, science and math, technology, conservation and the environment.

Products and services enrich and enhance teaching and learning to recognize the importance and contribution of natural resources to our economy, to national security, the environment and our quality of life.

# TO CULTIVATE AND PROMOTE AN ENERGY LITERATE SOCIETY



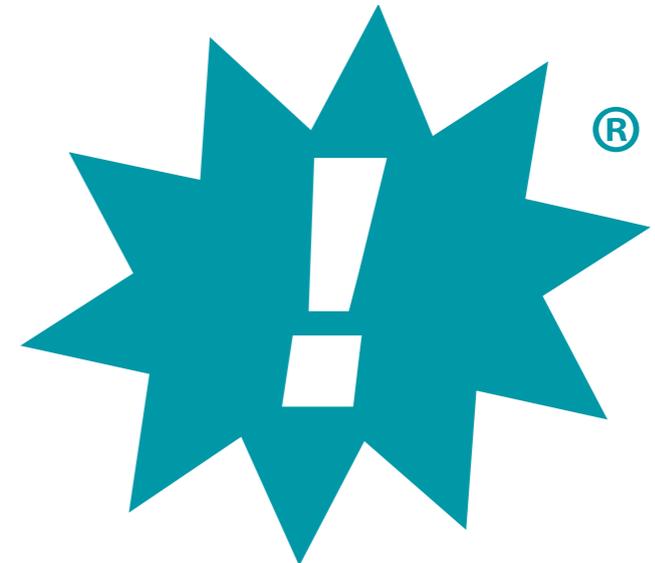
**Think!**

About  
energy.



**Talk!**

about  
energy.



**Take Action!**

now about our  
energy for today  
and the future!

# NEF Energy Education Programs

Bright Kids  
Take Action!  
Innovation  
Teacher Workshops and...



**COMMUNITY IN ACTION™**

# Community In Action

Hosted by a  
school or  
group

One hour,  
afternoon or  
evening

Monetary  
Incentive for  
hosting

At the **Community in Action** meeting, participants will learn about:  
How to save money on utility bills  
Energy saving technologies  
Energy saving behaviors

**Welcome and thank you for coming tonight!**



# What Is Energy?



Energy is the ability **to do work**  
and **produce change**.

*La energía es la capacidad de trabajar y producir un cambio.*

Today we are talking about **Energy**.

Where it  
comes from.

How we  
use it.

How we can  
be energy  
efficient.



Virtually  
**everything**  
we do or use  
at home and  
at work uses  
energy.

*Todo lo que hacemos requiere  
alguna forma de energía.*



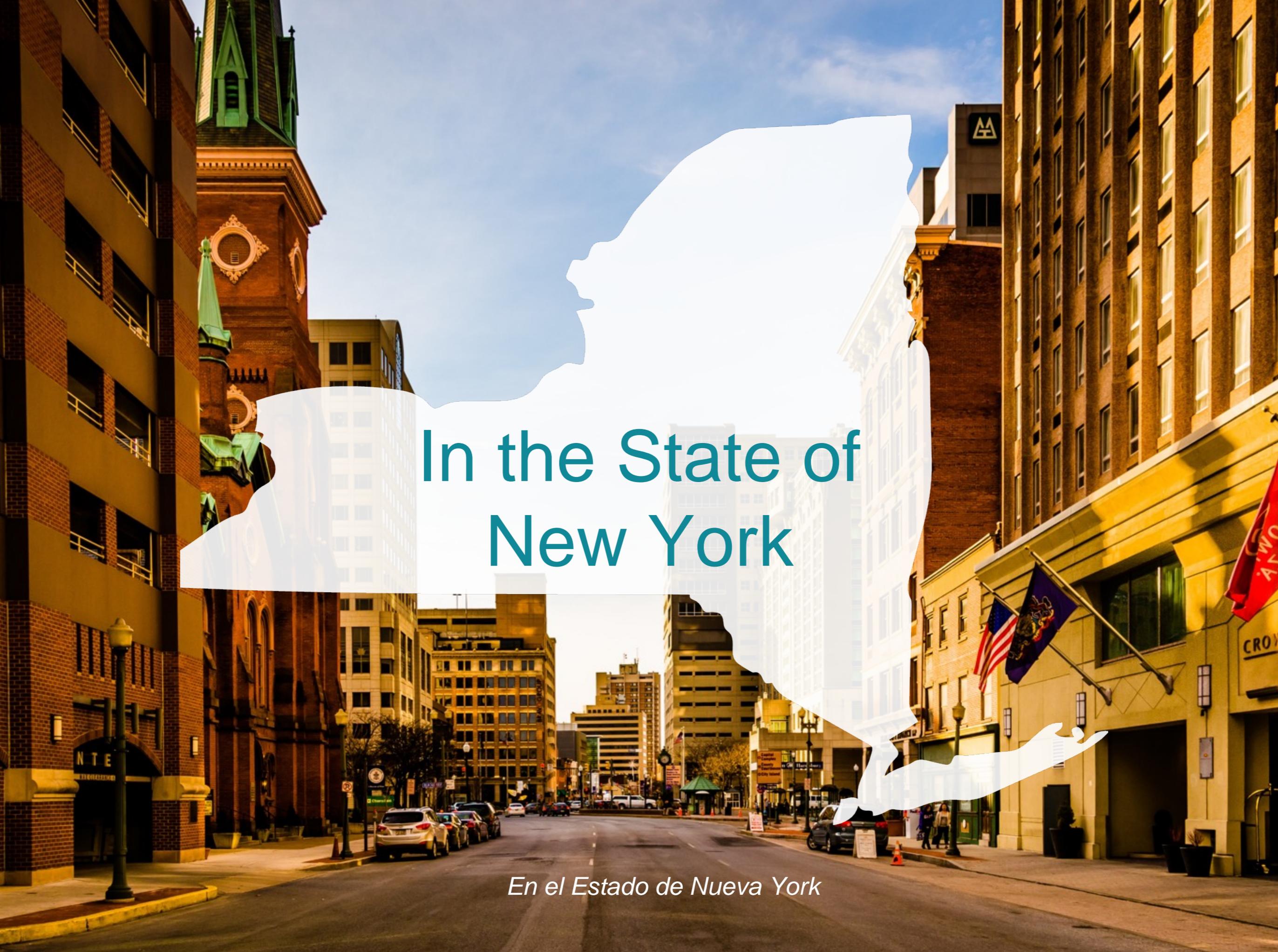
# Natural Resources

*Los Recursos Naturales*

# Where Does Your Energy Come From?

*¿De dónde viene la energía?*





# In the State of New York

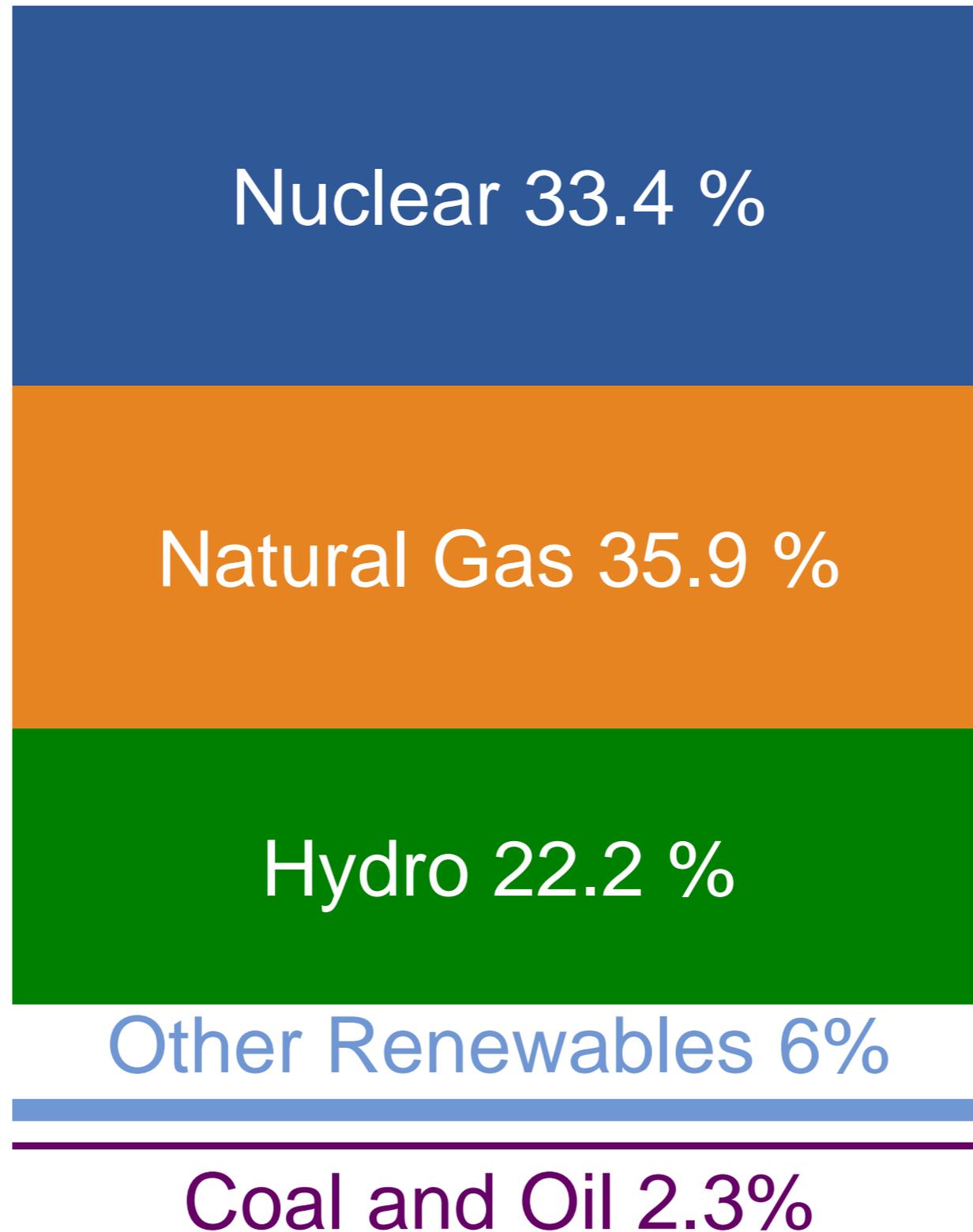
*En el Estado de Nueva York*



Nonrenewable 72%

Renewable 28%

# Nonrenewable and Renewable Resources





# Wise Energy Management

*Gestión racional de la energía*



# Controlling Consumption

A man in a light blue button-down shirt stands on the left, looking towards a man in a green polo shirt on the right. The man in green is pointing with his right hand towards a white cylindrical object he is holding. They are standing in a doorway with a decorative glass door. The background shows a hallway with a wooden door and a light switch.

**Check weather  
stripping around  
doors and  
windows to save  
energy.**



**Clean air filters  
and keep area  
clutter free.**

A man in a blue button-down shirt and khaki pants stands in a hallway, looking towards a light switch on the wall. Two children, a boy in a blue polo shirt and a girl in a red shirt, stand next to him, looking at the light switch. The hallway has white walls, a white door in the background, and a light switch on the wall to the left. The text "Use programmable thermostats and efficient night lights." is overlaid in the center of the image.

**Use programmable  
thermostats  
and efficient night  
lights.**

**Standby power and phantom loads use energy.**



2491

**Let's all work together  
to save energy.**



# How can you be more **energy efficient with electricity?**

*¿Cómo se puede ser más energía eficiente con el uso de la electricidad?*



Energy efficiency is using **less energy**  
to accomplish the same amount of work.

*Eficiencia energética está usando menos energía para realizar  
la misma cantidad de trabajo.*

LEDs are a  
great  
example

# Behavior

Turn off lights.

*Comportamiento: Apague la luz cada vez que sale de un cuarto.*

# Technology

Replace light bulbs with LED bulbs. They use up to 75 percent less energy than incandescents and last up to 20 times longer.

*Tecnología: Reemplace bombillas con las LED. Ellas usan hasta un 75 por ciento menos energía que las incandescentes y duran hasta 20 veces más.*

# Behavior

Not using them?  
TVs, computers  
and game  
consoles - off.

*Comportamiento: Desactive televisores, computadoras y consolas de juego cuando no esté utilizando.*

# Technology

Use a smart  
power strip.

*Tecnología: ¡Cuidado con cargas fantasma! Utilice un enchufe protector para reducir el desperdicio de energía.*

# Behavior

Adjust the thermostat for the season.

*Comportamiento: Ajustar el termostato de la temporada.*

# Technology

Use a programmable thermostat.

*Tecnología: Utilice un termostato programable y configurarlo para ajustar la temperatura cuando no hay nadie inclusive.*

# Behavior

- Wash clothes in cold water.
- Wash **full** loads of laundry and dishes.

## *Comportamientos:*

- *Lave platos en un lavaplatos sólo cuando está completamente lleno.*
- *Lave ropa en agua fría.*
- *Lave ropa en la lavandería solo si tiene toda la capacidad.*

# Technology

Water heater temperature 120 F.

*Tecnología: Ajuste la temperatura en el calentador de agua a 120 F.*

How can you be **more energy efficient** with recycling?

*¿Cómo se puede ser más eficiente con el reciclaje?*

Recycle all types of paper products and buy recycled products.

Use both sides of paper.

Recycle your refrigerator and your electronics.

Recycle your CFL at local stores.

*Recycle todo tipo de productos de papel y comprar material de origen reciclado.*

*Recycle su refrigerador y su electronica.*

*Utilice ambas caras del papel.*

*Recycle las bombillas CFL en las tiendas locales.*



# COMMUNITY IN ACTION™



**power**®

PPL ELECTRIC UTILITIES



**How much does  
it cost to light  
your home?**



Discover how much money you would save if all the light bulbs in your home were LEDs.

Take a walk around your home with your family to survey the lighting.

1. Count the bulbs in each room and record it in **Table 1**.
2. Transfer this information into Column A on **Table 2**.
3. Multiply the numbers in Column A by the given amounts in Column B, place the answers in Column C.

TABLE 1		
LOCATION	Incandescents	LEDs
Bedroom 1		
Bedroom 2		
Kitchen		
Dining room		
Living room		
Hallway		
Laundry room		
Family room		
Front porch		
Other		
<b>TOTAL</b>		

TABLE 2			
	A	B	C
	Number of bulbs (from Table 1)	Annual cost of electricity for one bulb	Current annual cost of electricity
<b>INCANDESCENT</b>	<b>X</b>	\$4.19	=
<b>LED</b>	<b>X</b>	\$0.88	=
<b>TOTAL</b>			



\$0.88	=	Annual cost of electricity with only LEDs
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4. Discover how much money you will save if all the bulbs in your home were LEDs. Multiply the total number of bulbs in your home by the annual cost of electricity for one LED. How does this total compare with your current total in Column C?



**Work together to save energy**

*Trabajando juntos para ahorrar la energía*

A young girl with dark skin and hair is sitting at a wooden desk, leaning over an open notebook. She is holding a green pen and appears to be writing. She is wearing a dark patterned shirt and a colorful beaded bracelet on her left wrist. The background is a plain, light-colored wall.

**Please  
complete  
and return**

*Por favor complete y retorno*

# Home Energy Worksheet

*Boletín del Hogar*

**Community in Action  
Home Energy Worksheet**

School ID

School Name

City

Zip

Name (optional)

Address (optional)

1. What is the main source of heat in your home?  
 Electricity       Natural gas  
 Wood or geothermal       Other fuel

2. If you have a furnace, how old is it?  
 0 - 5 yrs       6 - 10 yrs       11 - 15 yrs  
 16+ yrs       NA

3. How would you rate the condition of your furnace?  
 Works well all the time  
 Works well most of the time  
 Needs to be replaced

4. What type of housing do you live in?  
 Single-family       Multi-family       Other

5. How old is your home?  
 0 - 5 yrs       6 - 10       11 - 15  
 16 - 20       21 - 30       31+

6. How is your water heated?  
 Natural gas       Electricity  
 Propane or other method

7. How old is your water heater?  
 0 - 5 yrs       6 - 10 yrs       11 - 15 yrs  
 16+ yrs       Don't know

8. How would you rate the condition of your water heater?  
 Works well all the time  
 Works well most of the time  
 Needs to be replaced

9. Does your home have an air conditioner?  
 No       Yes, central  
 Yes, room       Yes, other

10. If you have room air conditioners, how many are in the home?  
 1       2       3  
 4       5+       NA

11. If the answer to question #9 is yes, how old is the unit or system?  
 0 - 5 yrs       6 - 10 yrs       11 - 15 yrs  
 16+ yrs       NA

12. How would you rate the condition of your air conditioner?  
 Works well all the time  
 Works well most of the time  
 Needs to be replaced

13. How many people live in your home?  
 1       2       3       4       5  
 6       7       8       9       10+

14. If you have a programmable thermostat, what temperature do you typically set for the summer months?

15. If you have a programmable thermostat, what temperature do you typically set for the winter months?

# Program Evaluation

## La Evaluación

**Community in Action Forum Evaluation**

Participants: Please take a moment to answer the following questions. You may leave the survey at the registration table.  
Thank You!

School ID

School name

City

Zip

Name (optional)

Address (optional)

1. How would you rate the information in the presentation?  
 Very helpful     Somewhat helpful     Indifferent     Not helpful

2. How effective were the presenters in communicating information concerning the *Home Energy Worksheet Scan Form* and kit contents?  
 Very helpful     Somewhat helpful     Indifferent     Not helpful

3. How would you rate the overall **Community in Action** forum in its ability to assist your household with its energy use?  
 Very helpful     Somewhat helpful     Indifferent     Not helpful

4. What was the most useful part of the **Community in Action** forum?

5. Suggestions/Comments:

Community in Action is a **THINK! ENERGY** program.

PPL CIA

and pick up your **Community in Action Kit.**

*y recoja su Kit de Acción en Comunidad*



REDUCE YOUR USE

January	February	March	April	May	June
July	August	September	October	November	December

TOTAL kWh LAST YEAR: \_\_\_\_\_ TOTAL: \_\_\_\_\_ kWh

TRACK YOUR ELECTRICITY USE BY MONTH

**Thank you**  
for **participating!**



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