

# Energy Is Everywhere!

U.S. DEPARTMENT OF  
**ENERGY** | Energy Efficiency &  
Renewable Energy



## Staying Warm & Saving Energy this Winter

December 17, 2015



Webinar Series sponsored by  
Housing and Urban Development,  
Department of Energy and  
Department of Education

# Webinar Agenda

- Welcome and intro to webinar series
- Introduction of presenter, Madeline Salzman
- Resident Engagement Toolkit overview
- Building knowledge
- Changing behavior
- Inspiring social change
- Q & A



You are on mute! Use your webinar bar to fill out poll or chat to send in a question.

Email [SEEDInitiative@hud.gov](mailto:SEEDInitiative@hud.gov) about the Energy is Everywhere Webinar Series to learn more.

# SAHF Toolkit

Developed by Stewards for Affordable Housing for the Future

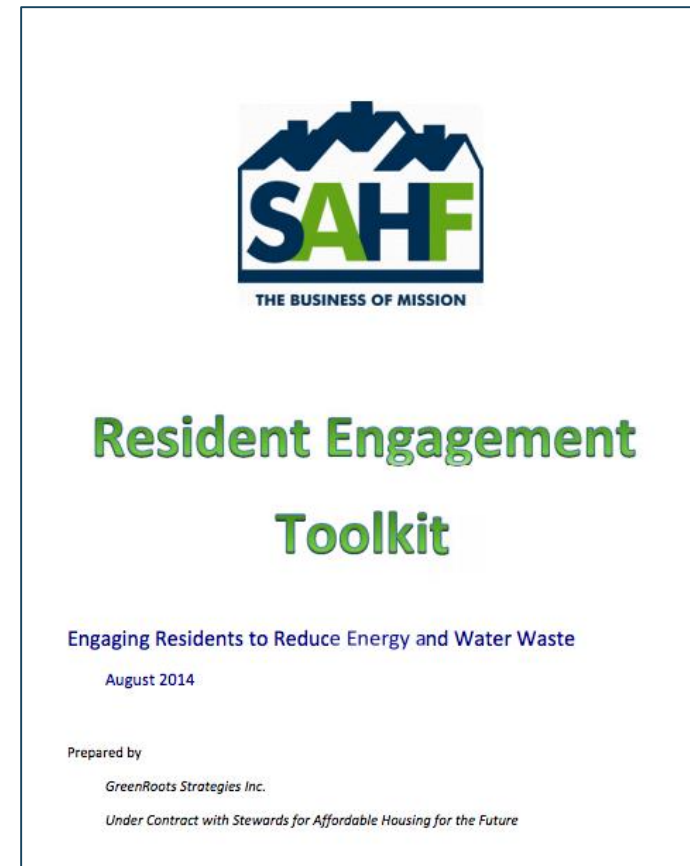
➤ Link: <http://www.sahfnet.org/residentengagement.html>

Strategies to engage residents on behavior to:

- Reduce energy use
- Reduce water use
- Encourage healthy living

Our focus: ***energy literacy***

All activities in this presentation  
(and more!) are available for download  
from the toolkit.



# Incorporating Your Community

- Host a meeting with hot cocoa and seasonal treats
- Have printed out materials at events
- Be responsive to resident concerns
- Keep things fun and be creative!



# Benefits to Winter Strategies

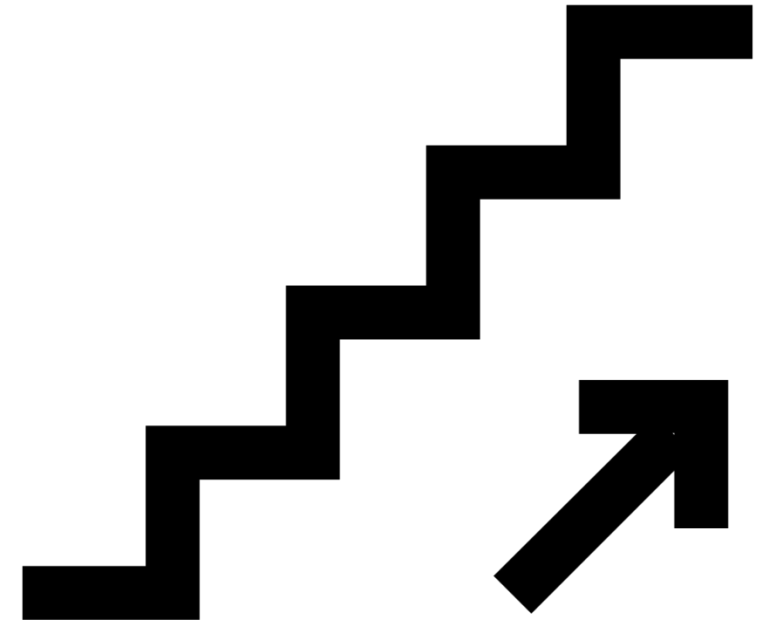
- For property management: opportunity to reduce consumption during winter months
  - In residences, heating / cooling accounts for 48% of energy use
  - Typically largest single energy expense
- For residents: opportunity to increase comfort during the winter months
  - Get to know how residents feel in their homes





# Inspiring Your Residents

- **December – Building Knowledge**
    - What is this, and how is it good for me?
  - **January – Changing Behavior**
    - How do I do this?
  - **February – Instilling Social Change**
    - How does this make an impact?
- One way to divide SAHF's tools and activities, but not the only way



# Baseline Knowledge: Staying Warm

## **On Your Person**

- Wear layers – socks & sweaters
- Stay hydrated, exercise to get blood flowing

## **In Your Home**

- Open blinds toward sun, close blinds at night
- Set thermostat at 68°F or lower, make only small adjustments
- Keep windows and doors closed & locked when its cold

## **Maintenance**

- Clean or replace air filters, seal air ducts
- Caulk drafty spaces and window frames

# Recommended Plan: December

Focus on building *KNOWLEDGE*

- **Exhibit 4-6:** Energy & Water Improvements Poster
- **Exhibit 4-14:** Winter Conservation Tips Poster
- **Exhibit 4-18:** Conservation Corner Newsletter Insert







# Your Program Name Here

*Community Name* – Energy & Water Improvements



Install New Efficient Lighting

Replace Hot Water Boilers

*Insert Logo Here*



# Winter Conservation Tips

## *Stay Warm without Wasting Electricity*



TURN DOWN the heat when not at home or sleeping. If you have a programmable thermostat, set the temperature to 68° in the WINTER!

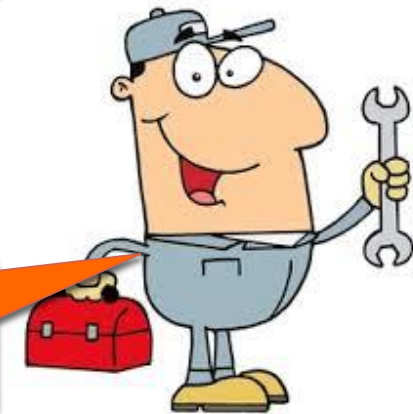


Keep window coverings OPEN during the day and save on heating costs! CLOSE the curtains at night to reduce the chill!



Throw on a WARM sweater and socks when it is CHILLY!

CONTACT Property Management about drafts and heating issues.



*Insert Logo Here*

# Newsletter Inserts

## Conservation Corner – Space Heating

You can ***do your part*** by practicing the following:



**SETTING** your thermostat no higher than 68°F in the Winter!



**OPENING** your blinds on a sunny day!

# Recommended Plan: January

Focus on changing *BEHAVIOR*

- **Exhibit 5-52:** Apartment Mini-Audit
- **Exhibit 4-17 / 5-54:** Understanding Your Thermostat
- **Exhibit 5-53:** Thermostat Tutorial

## APARTMENT MINI-AUDIT



You can easily perform your own apartment mini-audit!

Below is a list of areas in your home for you to inspect and take action on to fix in order to save energy. All of these suggestions require you to walk around your home and see how your home stacks up. Then you can make the appropriate small home improvements.

### AREA OF YOUR HOME

#### LIGHTING



#### ELECTRONICS AND SMALL APPLIANCES



#### HEATING AND COOLING



### WHERE ENERGY IS WASTED

Incandescent bulbs  
Halogen bulbs  
Leaving lights on unnecessarily

On when not in use  
Electronics are plugged directly into outlets  
Using sleep mode

Not adjusting the temperature on the thermostat when needed

### HOW YOU CAN SAVE ENERGY

Chose CFLs/LEDs  
Turn lights off in unoccupied rooms or when you leave the house

Plug appliances and electronics into power strips that you turn off when not in use

Program thermostat:  
Winter setting 68°C  
Summer setting 78°C

## APARTMENT MINI-AUDIT



### LIGHTING

- Lighting accounts for 11% of home energy use.
- Turning off one 60 watt incandescent bulb can save \$15 per year.
- Choose CFLs! They use 75% less energy and last 10x longer.
- CFLs come in many brightness and color tone options.
- CFLs and LEDs fit into most standard light fixtures.
- Confused about what wattage to buy? Manufacturers indicate the 'equivalent wattage' on the packaging.



### ELECTRONICS & SMALL APPLIANCES

- Electronics and small appliances account for 18% of energy use.
- Even when turned off, electronic devices and appliances still use some electricity "phantom power" when plugged in and can account for 15% of your entire electric bill. Popular offenders include: cell phone chargers, fans, coffee makers, computers, desktop printers and radios.
- Use a power strip so that you can turn devices off completely with the flick of one switch!

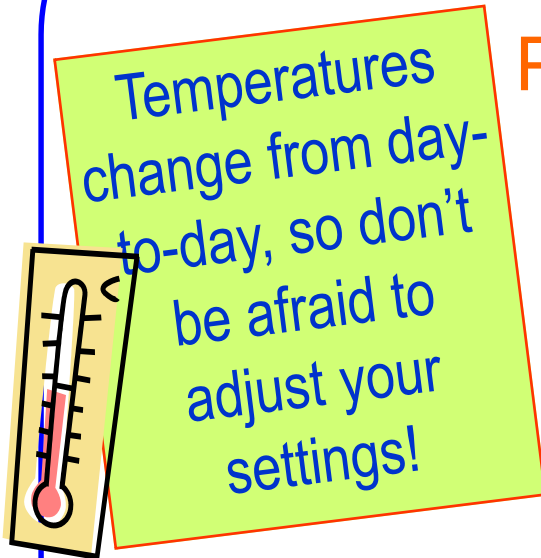
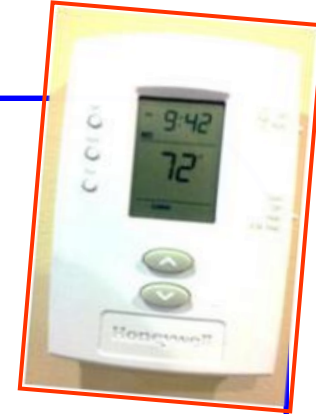


### HEATING & COOLING

- Heating and cooling accounts for 43% of home energy use.
- Programmable thermostats can store multiple daily settings.
- In the winter, try not to set your thermostat higher than 68°F.
- In the summer, try not to set your thermostat higher than 78°F.

# Your Program Name Here

## *Understanding your Thermostat*



### Programmable Thermostats

You can save money on your heating and cooling bills by simply programming your new thermostat.

Programmable thermostats can store multiple daily settings that you can manually override (when needed) without affecting the rest of your daily settings.

### Setting your Thermostat for Maximum Energy Savings!

- ◆ In the **WINTER** try not to set your thermostat higher than 68°F.
- ◆ In the **SUMMER** try not to set your thermostat lower than 78°F.

common  
setting:  
68°F and 78°F

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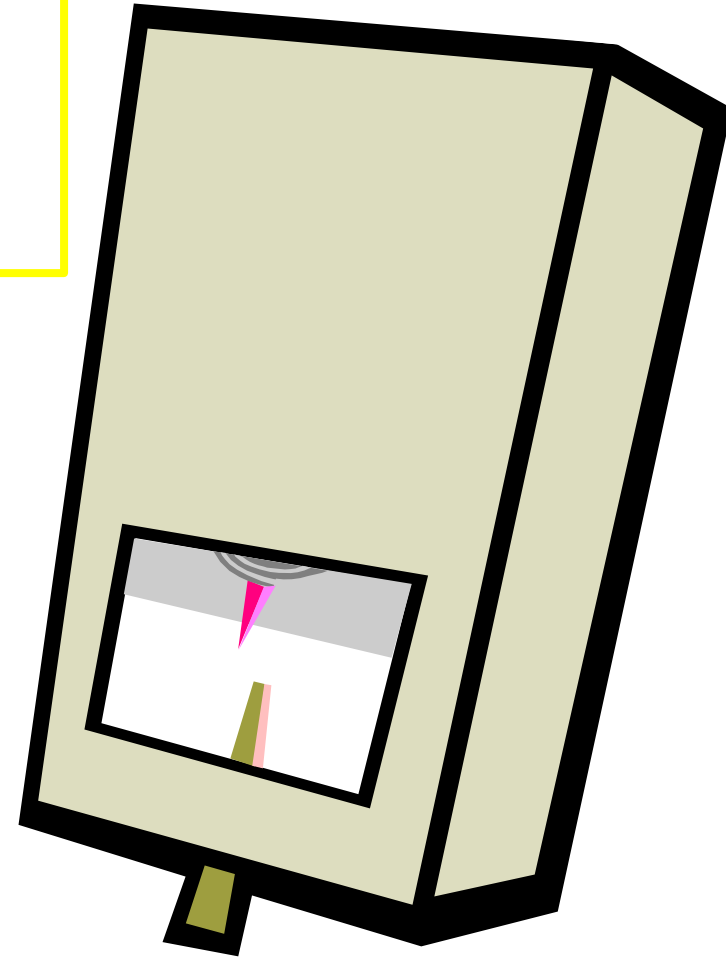
# IN-HOME THERMOSTAT TUTORIAL

**SIGN UP FOR AN IN-HOME  
TUTORIAL ON HOW TO SET  
YOUR THERMOSTAT.**

- **FIND OUT ABOUT...**
  - Setting your Thermostat
  - Staying Comfortable

**TUESDAY APRIL 22, 2013**

**1:00 P.M. To 5:00 P.M.**



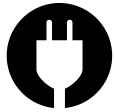
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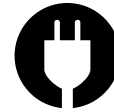
# Recommended Plan: February

Focus on inspiring ***SOCIAL CHANGE***

- **Exhibit 4-16:** Exercise – How Much Electricity Do I Use?
- **Exhibit 5-62:** Green Movie Night



## ENERGY CONSERVATION EXERCISE 1: HOW MUCH ELECTRICITY DO I USE?



## ENERGY CONSERVATION EXERCISE 1: HOW MUCH ELECTRICITY DO I USE?

**GOAL**

In this activity, you will:

1. Learn how to read their utility bill.
2. Calculate your total household electricity use and electricity use per person.
3. Discuss strategies and behaviors for reducing energy use.

**DIRECTIONS**

**Step 1:** Evaluate your utility bill

Look at your utility bill and locate the kWh used each month and the total cost of the bill.

MONTH	kWh	COST
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
<b>A: TOTAL</b>	= _____	_____
<b>B: NUMBER OF PEOPLE IN HOUSEHOLD</b>	= _____	
<b>C: ENERGY USE PER PERSON (LINE A ÷ B)</b>	= _____	

**DIRECTIONS**

**Step 2:** Plot your energy use on the board

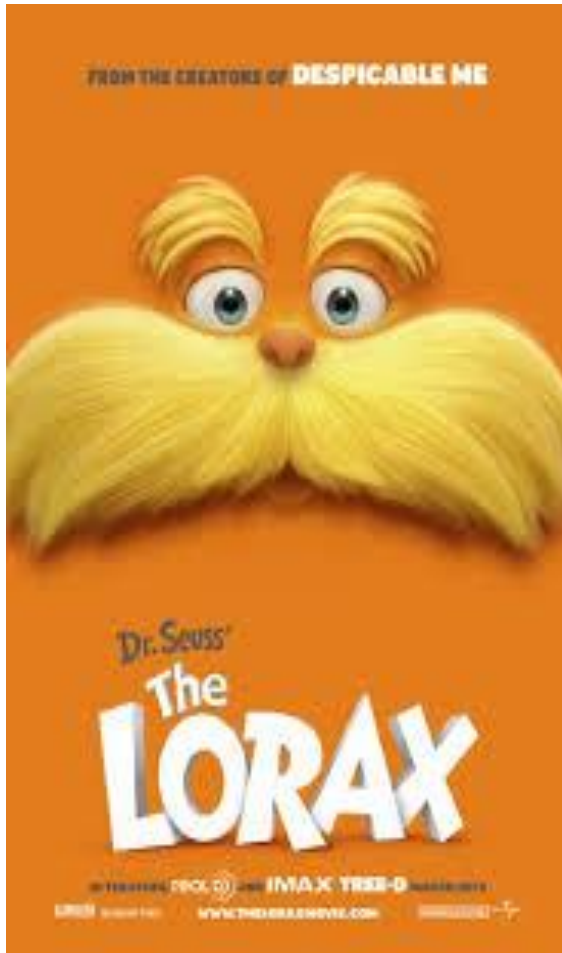
**Step 3:** Analyze and discuss your usage

- Why do you think your electricity varies over the year?
- Was it higher during summer? Winter? Why?  
What are some opportunities to reduce electric use?

**Step 4:** My Action steps

I will do the following three things:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_



**Movie Refreshments**

# MOVIE NIGHT



- **COME LEARN ABOUT...**
  - Conserving Resources
  - Watch "The Lorax"

**TUESDAY APRIL 22, 2013**

**2:00 P.M.**

**MEET IN THE COMMUNITY ROOM**



**Green Sprouts**

# Engagement Tips

- Numbers might be low at first. That's okay! It takes time for people to get used to new initiatives
- Find your resident leaders – people who are interested in these issues
  - Help hanging up signs, letting residents know about events
  - Find out what matters to YOUR residents
- Don't take on more than you have time for; opt to do a **few, simple** activities well

## Questions and Contact Us

**Questions:** Type in the questions/chat box.

**We are interested in your feedback on the Energy Is Everywhere Series!**

**Email:** [SEEDInitiative@hud.gov](mailto:SEEDInitiative@hud.gov)

**Questions regarding the presentation.**

**Email:** [Madeline.Salzman@EE.DOE.Gov](mailto:Madeline.Salzman@EE.DOE.Gov)