

Energy Is Everywhere!

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy



Staying Cool & Saving Energy this Summer

June 16, 2016



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

SAHF Toolkit

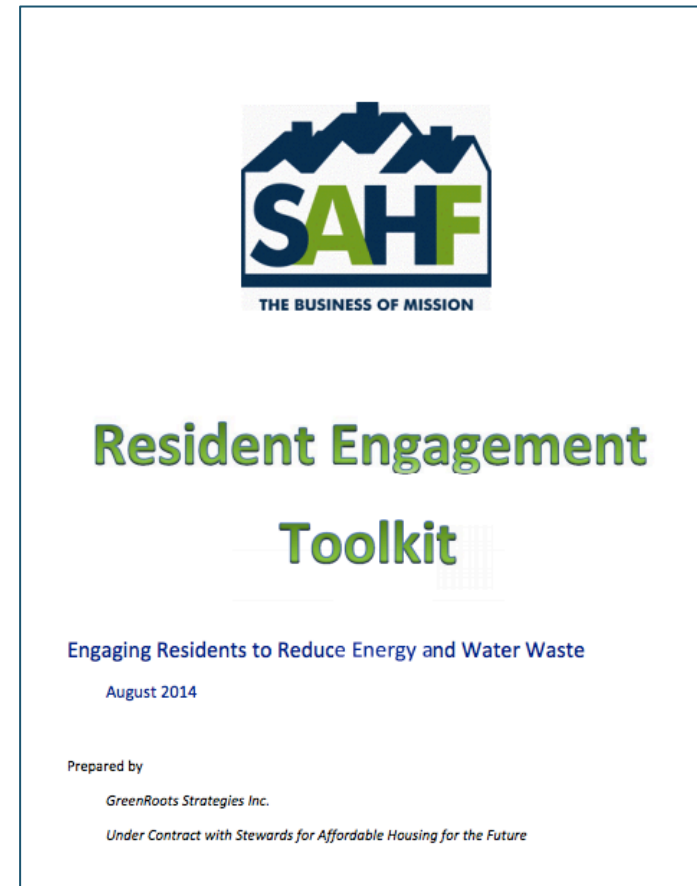
Developed by Stewards for Affordable Housing for the Future

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

Strategies to engage residents on:

- Behavior to reduce energy use
- Behavior to reduce water use
- Behavior to encourage healthy living

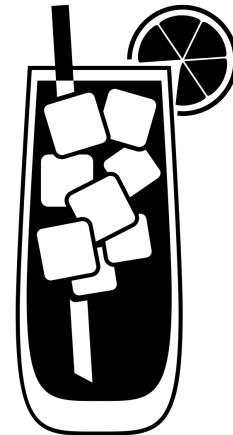
All activities in this presentation
(and more!) are available for download
from the toolkit.



SEED: Coalitions for Community Growth

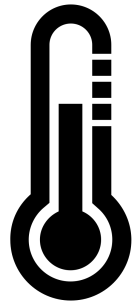
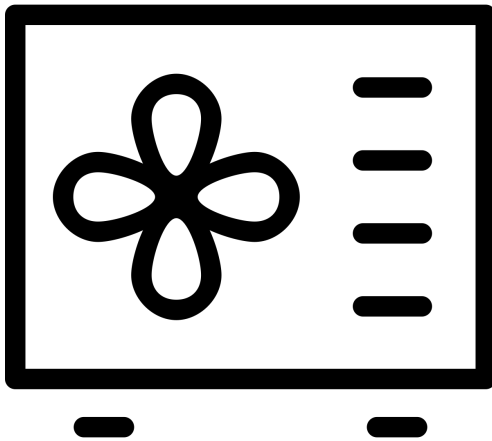
Incorporating Your Community

- Host meetings with snacks and/or refreshments
- Have printed out materials at events
- Be responsive to resident concerns
- Keep things fun and take advantage of events & holidays



Benefits to Cooling Strategies

- Air conditioning accounts for about 6% of home energy use (EIA)
- Americans spend about \$11 billion on air conditioning annually (DOE)
- Big source of discomfort for residents
- Excess heat has associated health risks for sick and elderly
- Can cause electricity blackouts throughout the summer



Recommended Plan: June

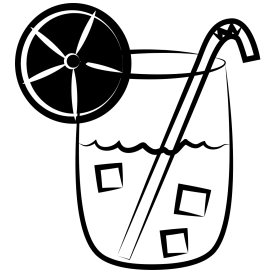
Focus on building *KNOWLEDGE*

- Exhibit 4-17: Thermostat Management Postcard
- Exhibit 4-26: Seasonal Tip Poster – Staying Cool
- Exhibit 5-53: In-Home Thermostat – Tutorial

Building Knowledge: Staying Cool

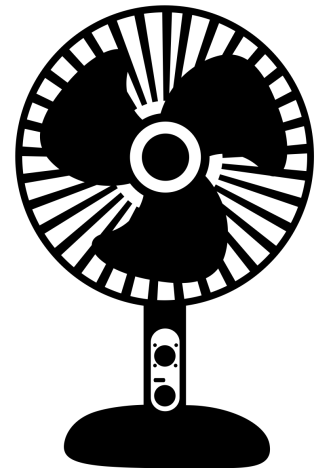
Resident Behavior

- Stay hydrated!
- Wear light, loose, thin clothing
- Cool rooms only when people or pets are in them
- Take cold showers, air dry clothes
- BYOSC (Build Your Own Swamp Cooler)



In The Home

- Utilize fans rather than AC as much as possible
- Set thermostat at 74-8°F
- Use blinds & curtains to block sunlight
- Turn cooling off at night and when the windows are open



Maintenance

- Clean or replace air filters, seal ducts
- Caulk drafty spaces and window frames
- Sign up for utility blackout prevention programs

Your Program Name Here

Understanding your Thermostat



Temperatures change from day-to-day, so don't be afraid to adjust your settings!

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 higher than 78°F.

COMMON
SETTING:
68°F AND 78°F

Insert Logo Here



Summer Conservation Tips

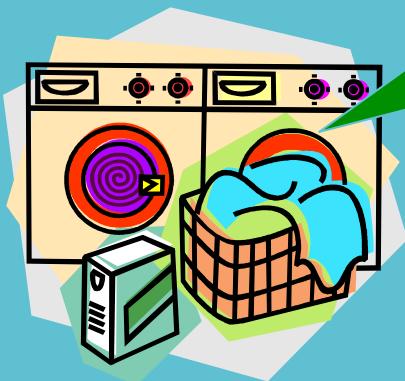
Staying Cool while Saving Energy



Turn off unnecessary lights! Traditional incandescent bulbs use a lot of energy to produce light. 90% of energy is given off as HEAT!



Keep window coverings closed during the day and save on cooling costs!



Do laundry or bathe in the early morning or late evening when it is cool outside.



Buy an air conditioner with the Energy Star® symbol and help reduce energy and operating costs!

Insert Logo Here

IN-HOME THERMOSTAT TUTORIAL

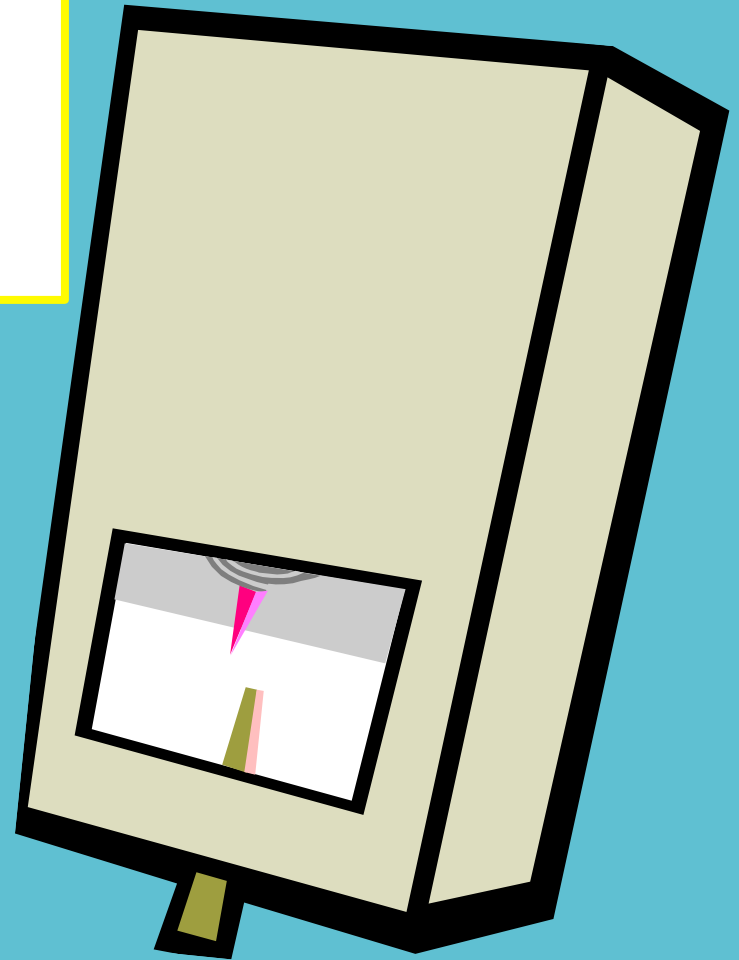
**SIGN UP FOR AN IN-HOME
TUTORIAL ON HOW TO SET
YOUR THERMOSTAT.**

FIND OUT ABOUT...

- Setting your Thermostat
- Staying Comfortable

TUESDAY JULY 22, 2016

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



Insert Logo Here

Recommended Plan: July

Focus on changing *BEHAVIOR*

- Exhibit 4-30: Conservation Corner – Space Cooling
- Exhibit 4-31: Conservation Corner - Laundry
- Exhibit 4-32: Seasonal Tip Poster – Small Appliances
- Exhibit 4-33: Energy Conservation Door Hanger
- Exhibit 5-15: Exercise #2: WATT Do They Take?

Newsletter Inserts

Conservation Corner – Space Cooling

You can do your part by practicing the following:



SETTING your thermostat no higher than 78°F in the Summer!

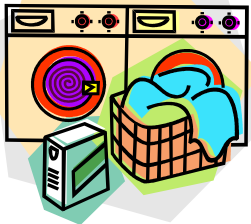


CLOSE your blinds to keep the heat out!

Newsletter Inserts

Conservation Corner – Laundry

You can do your part by practicing the following:



WASHING your clothes in COLD water!



WAITING for full loads of laundry before doing a wash!

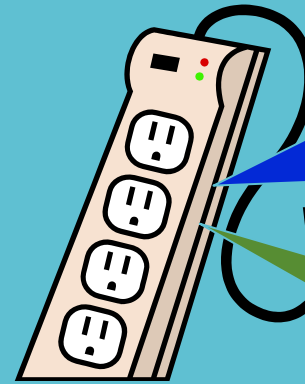
Conservation Tips

Use Electronics without Wasting Energy

SHUT DOWN computers and monitors when not in use, even during short breaks.

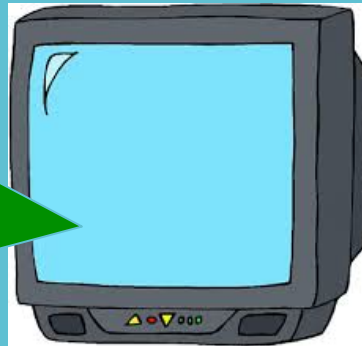


Use a POWER BAR to save electricity: switch the power bar OFF when you are not using devices.



UNPLUG phone/device chargers when not in use.

TURN OFF (or unplug) TVs, stereos, and computers when not in use. Electronics use power even when they are turned off.



Energy Star® products use up to 65% less energy than non-qualified models. LOOK for the Energy Star® label when shopping!

Insert Logo Here

Conservation Door Hanger



Energy Conservation

*Staff thank you for
TAKING ACTION to help
CUT Energy WASTE!*

Turn OFF your computer
when it is not in use.

Use a power strip for two
or more appliances.

Install a LED bulb in a
table lamp.

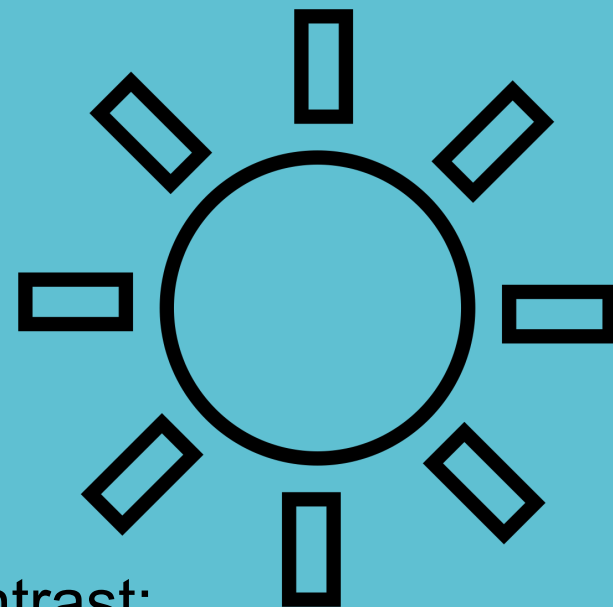
Energy Conservation Exercise 2: WATT Do They Take?

Goal: Residents will learn how different home electronics and appliances use energy. Residents will also learn how they can change behaviors and purchasing habits to reduce electricity use.

	Electricity Used		# Hours per Day	\$ Cost per Year	
	Min	Max		Min	Max
Under 100 Watts					
Computer asleep	30	30	8	\$ 18	\$ 18
Computer monitor asleep	30	30	8	\$ 18	\$ 18
Laptop computer	50	50	12	\$ 44	\$ 44
Window fan ←	55	250	8	\$ 32	\$ 146
Electric blanket	60	100	8	\$ 35	\$ 58
Television, 19 inch	65	110	6	\$ 28	\$ 48
Television, EnergyStar, 30 inch	65	65	6	\$ 28	\$ 28
Ceiling fan ←	65	175	8	\$ 38	\$ 102
Stereo	70	400	6	\$ 31	\$ 175
Under 500 Watts					
Television, 27 inch	113	113	6	\$ 49	\$ 49
Television, 36 inch	133	133	6	\$ 58	\$ 58
Television, 53-61 inch	170	170	6	\$ 74	\$ 74
Television, flat screen	120	120	6	\$ 53	\$ 53
Television, EnergyStar, 40 inch	95	95	6	\$ 42	\$ 42
Computer awake	120	120	16	\$ 140	\$ 140
Computer monitor awake	150	150	16	\$ 175	\$ 175
Water bed with heater	120	380	6	\$ 53	\$ 166
Clothes washer	350	500	2	\$ 51	\$ 73
Over 700 Watts					
Refrigerator	725	725	8	\$ 423	\$ 423
Fan, furnace	750	750	8	\$ 438	\$ 438
Microwave oven	750	1100	1	\$ 55	\$ 80
Space heater	750	1500	6	\$ 329	\$ 657
Dehumidifier (heavy use)	785	785	12	\$ 688	\$ 688
Dehumidifier (light use)	785	785	2	\$ 115	\$ 115
Clothes iron	1000	1800	1	\$ 73	\$ 131
Dishwasher	1200	2400	1.5	\$ 131	\$ 263
Toaster oven	1225	1225	1	\$ 89	\$ 89
Clothes dryer ←	1800	5000	2	\$ 263	\$ 730
Water heater (40 gallon) ←	4500	5500	4	\$ 1,314	\$ 1,606

How is operational cost impacted by:

- Settings (computer monitor awake vs. asleep)
- Wattage (high vs. low)
- Usage (hours per day)
- Appliance Size (large vs. small)



By contrast:

- Central Air Conditioner – 3500 Watts
- Central A/C Fan Only – Compressor Off – 750 Watts
- Largest Window Units – 1440 Watts
- Medium Window Unit – 900 Watts
- Smallest Window Unit – 500 Watts

Recommended Plan: August

Focus on inspiring *SOCIAL CHANGE*

- **Exhibit 5-57:** Energy Bingo – Event Poster
- **Exhibit 5-16a-f:** Energy Bingo – Slideshow and Bingo Cards
- **Exhibit 5-58:** Green Movie Night – Ice Age: The Meltdown

Community Name

Energy Bingo



BINGO!

**COME LEARN HOW TO CONSERVE
ENERGY IN YOUR HOME!**

**EVENT FOR CHILDREN BETWEEN
THE AGES OF 6 & 12.**

FRIDAY AUGUST 22, 2016

9:30 A.M. TO 11:30 A.M.

COMMUNITY ROOM

Refreshments



Green Sprouts

Energy & Water Conservation Activity

Bingo

HOW TO PLAY THE GAME

1. Bingo has pictures related to energy & water conservation (not numbers).
2. The presentation will provide clues and participants need to guess the correct picture.
3. The correct picture will be displayed after participants have guessed the answer.
4. The winner will have 5 pictures in a row: horizontally, vertically or diagonally.

BINGO RULES

1. Participants can shout out answers.
2. HAVE FUN!



Sample Card



Movie Refreshments

MOVIE NIGHT



COME LEARN ABOUT...

- Water Conservation!
- Tracking your Water Use
- Watch "Ice Age – the Meltdown"

TUESDAY, AUGUST 22, 2016

2:00 P.M.

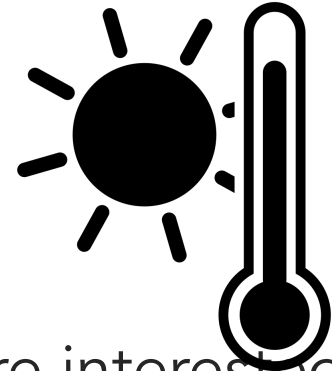
MEET IN THE COMMUNITY ROOM



Green Sprouts

Reminder: Engagement Tips

- Take advantage of the season
 - *Summer Solstice (June 20)*
 - *Independence Day (July 4)*
 - *Rio Olympics 2016 (August 5 – 21)*
- 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?

Thank you for your attention!



Contact:

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SEED: Coalitions for Community Growth