



Be an ENERGY STAR!

Idaho Power
Energy Efficiency Series
Celeste Becia
September 27, 2007



Simple Ways to Make a Difference

- **Lighting**
- **Heating**
- **Cooling**
- **Around the House**
- **Water**



Trivia Question:

- **Which gives out more light?**
 - 60-watt incandescent with 1000 lumens
 - 14-watt CFL with 800 lumens
- **Answer: 60 watt incandescent**
 - A good rule of thumb is to choose a compact fluorescent that is about one-third the wattage of the incandescent you would normally buy.

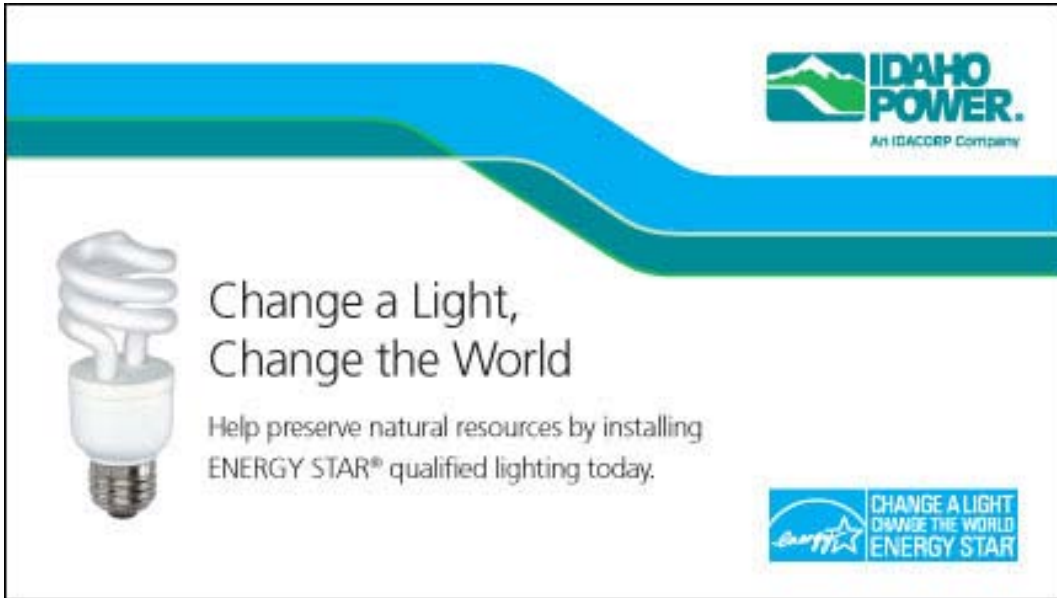
Lighting Tips

- **Lighting accounts for 5–10 % of a typical home’s electric bill**
- **Beware the “long life” incandescent**
- **Lighter walls reflect light and reduce mechanical lighting needs**
- **User fewer bulbs in fixtures**
- **Avoid outdoor reflector floodlights**
- **Amazing LEDs**

www.environmentalLights.com

www.ccrane.com/lights

Idaho Power Lighting Programs



- **Change a Light Campaign (CFL)**
 - 99¢ Spiral
 - Specialty bulbs
- **Holiday Lighting (LED)**
 - Non residential customers
 - Rebate is based on bulbs turned in, not purchased

Heating Trivia Question

- Which loses more energy, a 1-inch hole in your ductwork or a 10-inch square hole in your wall?
- **Answer:** They both lose the same amount of energy.



Heating Tips



- **31% of a typical household's energy use goes to heat**
- **Seal those ducts! (Oct 10)**
- **Space heaters**
 - Quartz heats objects, not air
 - Convection (coils) heat the air with fans
- **Save 2-3% of furnace energy for each 1° you turn down the thermostat (if set between 65 and 72 degrees)**
- **Change those filters!**
- **Tune up every other year**

Idaho Power Heating Programs

- **Energy House Calls**
 - Manufactured homes with electric heat
 - Free duct sealing and furnace tune-up
- **Weatherization Assistance for Qualified Customers**
 - Income qualified
 - Free installation of weatherization measures to improve heating and cooling efficiency
- **Heating and Cooling Efficiency**

Heating and Cooling Efficiency Program

Incentives Available for Single and Multi-Family Home Owners

For replacing an existing electric heating system with a heat pump

Equipment/Service	Customer Incentive
Electric Heat System to Heat Pump Replacement <i>Option 1: 14 SEER, HSPF 8.2, EER 11.5</i> <i>Option 2: 15 SEER, HSPF 8.5, EER 12.0</i>	Option 1: \$300 Option 2: \$400

If a customer is having an existing heat pump system serviced

Equipment/Service	Customer Incentive
Heat Pump High Performance Tune-Up Service	\$50

Cooling Trivia

Question:

- **True or False**
 - If my air conditioner is running continuously, it's running too hard
- **False! Properly sized a/c units run for long periods of time**
 - Frequent on/off cycles increase wear on the unit
 - Larger units cost more to buy, may not work well with existing ductwork
 - Larger units increase demand on the system on late summer afternoons

Cooling Tips

- Shade your air conditioner
- Set thermostat to 78° or higher
- Decreasing the setpoint when you get home won't make your home cool down any faster!
- Keep your home cool
 - Radiant barriers
 - www.radiantbarrier.com
 - www.LPCorp.com/techshield
 - www.dupont.com/tyvec
 - Increase attic venting
 - Purchase the right windows for solar heat gain
 - www.efficientwindows.org



Idaho Power Cooling Programs

- **A/C Cool Credit**
- **Heating and Cooling Efficiency**



Cooling Efficiency Program

Incentives Available for Single and Multi-Family Home Owners

Equipment/Service	Customer Incentive
High Efficiency Central A/C (Sizing & Install) Minimum efficiency: 14 SEER, 11.99 EER Minimum efficiency: 15 SEER, 12.5 EER	14 SEER: \$150 15 SEER: \$250
Central A/C 13 SEER (proper installation and sizing)	\$50
Evaporative Cooler Minimum size is 2500 CFM	\$150

Trivia Question

- **Replacing a refrigerator manufactured before 1993 would save enough energy to light the average household for:**
 - 3 weeks
 - 3 months
 - 4 ½ months
- **Answer: 4 ½ months!**
- **If you don't keep the old one . . . !**

Around the House Tips

- **Refrigerator—Recycle second refrigerator**
 - 38 ° to 42 °
 - Freezer 0 ° to 5 °
- **Dishwashing—save 15% of energy by using air dry setting, and pre-rinse with cold water**
- **Cooking—**
 - use the kitchen fan when cooking or baking
 - Use microwave for cooking, not just re-heating
 - Lower oven temp 25 ° when using glass or ceramic dishes
- **Insulate to R44 in attics, R30 in crawl spaces**
- **Disconnect plug loads when leaving the house for > 2 days**

Water Trivia Question

- **True or False:**
 - **Energy Efficient showerheads cut water use by 50%**
- **Answer:**
 - **True!**

Water Use Tips

- **Showers—5 minute shower = 30 gallons of water**
- **Aerate old faucets = 50% water savings**
- **Clothes Washing—90% of washing energy goes into heating the water**
- **Dishwashing—save 15% of energy by using air dry setting, and pre-rinse with cold water**
- **Water heater—**
 - reduce temperature to 120°
 - Insulate tank and hot and cold pipes
 - Turn off electric water heaters if gone more than 2 nights

Questions?

- **Upcoming Classes:**
 - **Thursday, Oct 4: “Beyond the Green”**
 - **Wednesday, Oct 10: “Get Your Ducts in a Row”**
 - **Thursday, Oct 18: “One Less Napkin”**
 - **Thursday, Nov 1: “Fact or Fiction”**

Resources

- **Registration**
 - Tonja Phetmisay, tphetmisay@idahopower.com
- **Websites**
 - www.Idahopower.com/energycenter
 - www.environmentalLights.com
 - www.ccrane.com/lights
 - www.radiantbarrier.com
 - www.LPCorp.com/techshield
 - www.dupont.com/tyvec
 - www.efficientwindows.org