

# Challenge #3



# Appliances Ranking

- Vacuum Cleaner = 1128-1150 Watts
  - TV & DVD (Entertainment) = 122.4 Watts
  - Lamp = 67 Watts
  - Computer (laptop) = 23 Watts
  - Air Purifier = 22 Watts
  - Cell Phone (charging) = 02 Watts
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- In terms of use Entertainment, Lamps and Computer were used most frequently (between 4-5hrs.)



# Heating & Cooling



- In summer, reduce AC need by turning up thermometer 2 degrees; in winter, turn down thermometer
- Always set “vacation mode” when away from home more than a day
- Install a digital thermostat

# Water Heating

- Generally use cold water for washing machine
- Kids take short showers, few baths
- Lowered the hot water heater temp. to 120 degrees
- Ran the dishwasher for shorter cycle and/or used cold water setting.



# Insulation & Air Sealing



- Insulated attic last year; replaced XXX windows
- Replaced garage door with insulated door and better seals on frame.

# Appliances & Electronics



- Using high efficiency washing machine, most loads in cold water
- Older house had old freezer, purchased new higher efficiency freezer
- Run dishwasher on “speed cycle”, only when full

# Other Things We Could Do

- **Refrigerator energy use**
- **In most homes the refrigerator is the second-largest user of electricity (13.7%), right after the air conditioner (16%).** ([Dept. of Energy](#)) With most appliances you save energy by using them less, but you can't very well do that with your fridge. The main way to save money with your fridge is to use an efficient model. New fridges aren't just a little more efficient, they're *incredibly* more efficient. A 1986-era fridge uses 1400 kWh a year, while a post-2001 fridge uses only 500 kWh -- a 64% savings. And the *most* efficient fridges use as little as 200 kWh.
- Here are some sample yearly costs to run various fridge, based on the [U.S. average price for electricity](#) of 12¢/kWh:
  - **\$168 - Old 1976-86 fridge** (1400 kWh/yr.)
  - **\$60 - Post-2001 fridge** (500 kWh/yr.)
  - **\$51 - Post-2001 Energy Star fridge** (425 kWh/yr.)
- And some older fridges are even worse than the average. [One reader](#) estimates her savings to be **\$238 per year** for trading in her 1979 fridge for a 2004 model.