

# Workshop Overview

- What affects energy use?

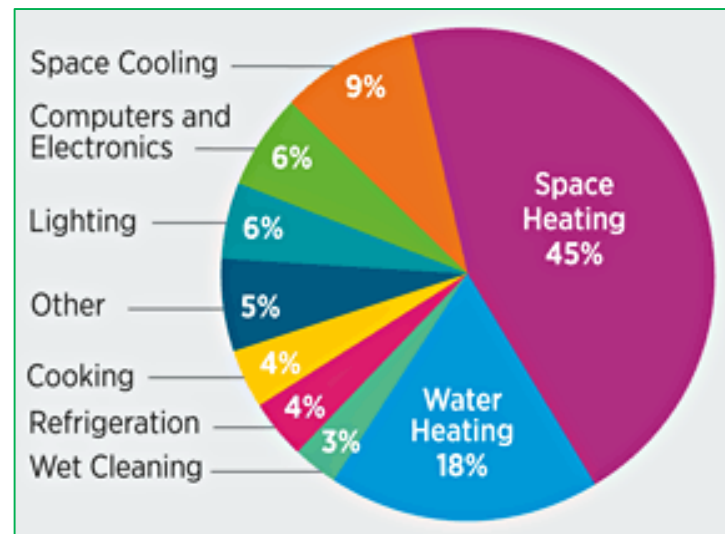
- Seasonal impacts
- Drafts and air leaks
- Poorly insulated areas

- Where is your energy used?

- Heating Air
- Heating Water

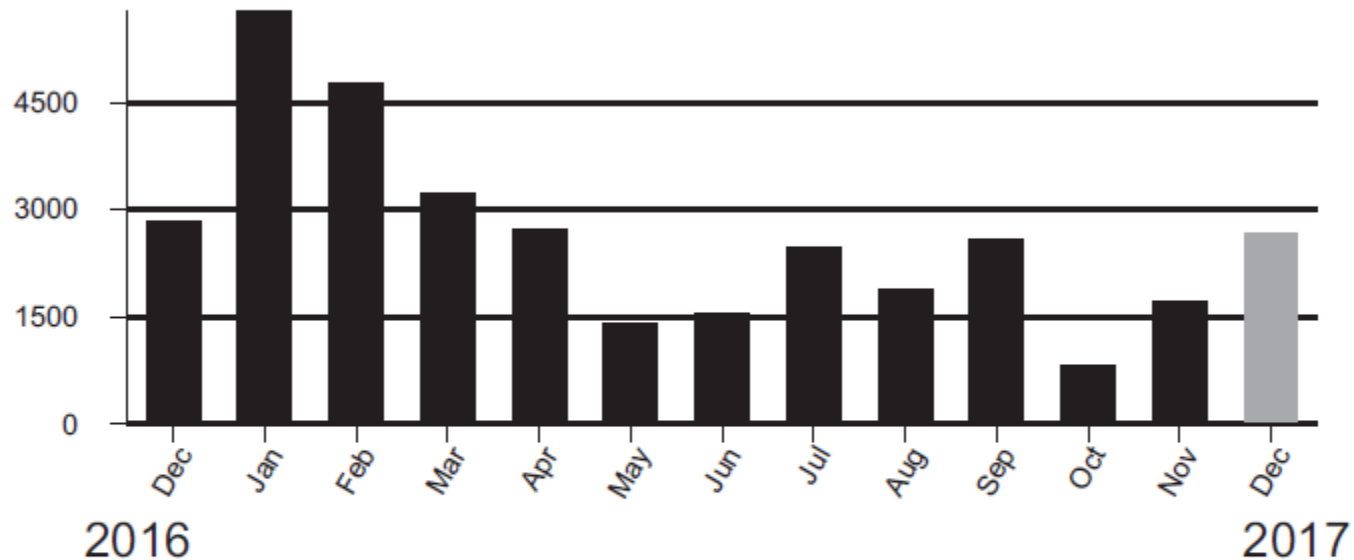
- What you can do to use less energy.

- Weatherization
- Behavior
- New Technologies
- Utility Rebates



# Useful Comparisons:

## kWh Usage History



### PERIOD ENDING

DEC 2016

DEC 2017

Avg Daily Temp

45

39

Avg Daily kWh

89

89

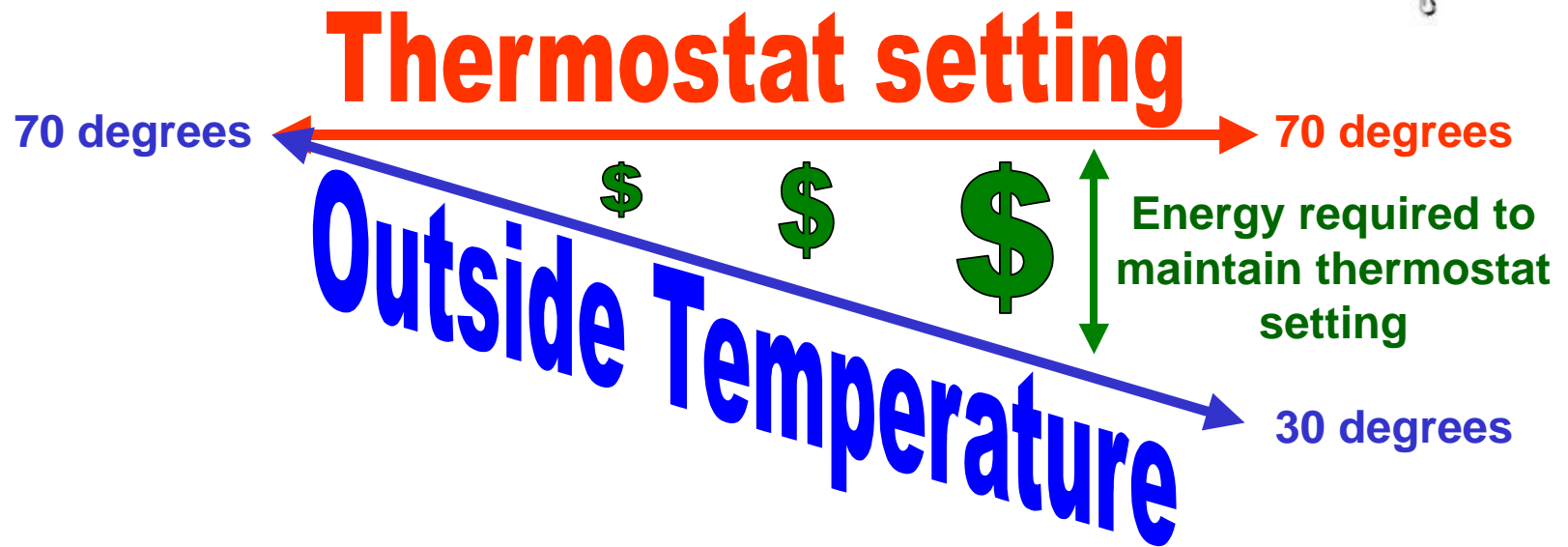
Avg Daily Cost

\$5.66

\$5.98

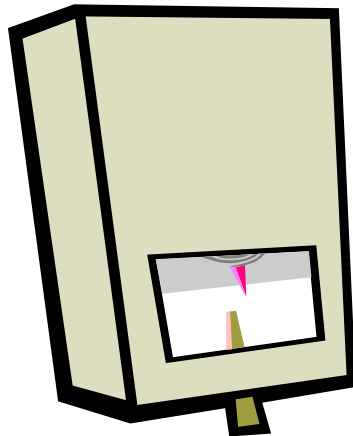
# Thermostats, Settings & Your System

Regulate the temperature not energy use



# Thermostats, Settings & Your System

**Lowering thermostat settings one degree can save on heating costs by 3%**



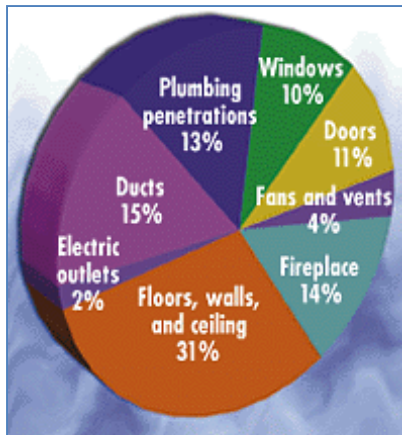
- From 70 Degrees to 69 = 3% Savings
- From 70 Degrees to 68 = 6% Savings
- From 70 Degrees to 67 = 9% Savings
- From 70 Degrees to 66 = 12% Savings
- From 70 Degrees to 65 = 15% Savings

3% of \$880.00 (annual heating cost) is \$27.00  
15% of \$880.00 (annual heating cost) is \$132.00!

# Weatherization & Energy Use

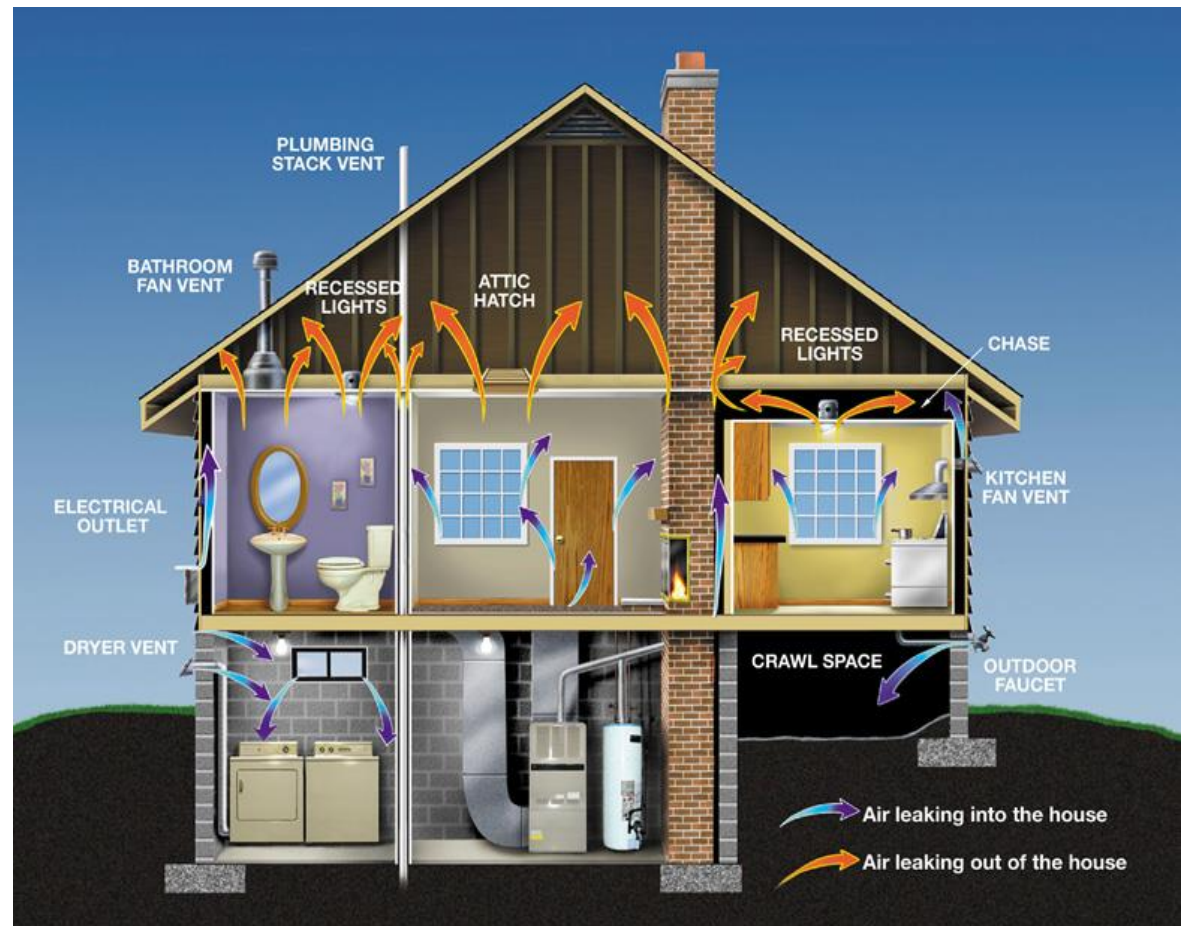
## • Drafts

- 31% Shell (walls, floors & Ceiling)
- 15% Ducts
- 14% Fireplace
- 11% Doors
- 10% Windows



### How Does the Air Escape?

Air infiltrates in and out of your home through every hole, nook, and cranny. About one third of this air infiltrates through openings in your ceilings, walls, and floors.



# Weatherization & Energy Use

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- “Winterizing” your home

- Seal & caulk
- Door sweeps
- Window treatments
- Fireplace dampers
- Crawlspace vents





# Weatherization & Energy Use

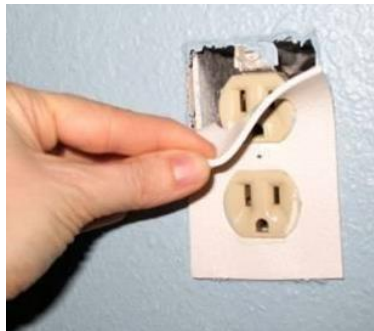
- Drafts from Ducts

- Under floors



# Weatherization & Energy Use

- Drafts from Plumbing & Electrical





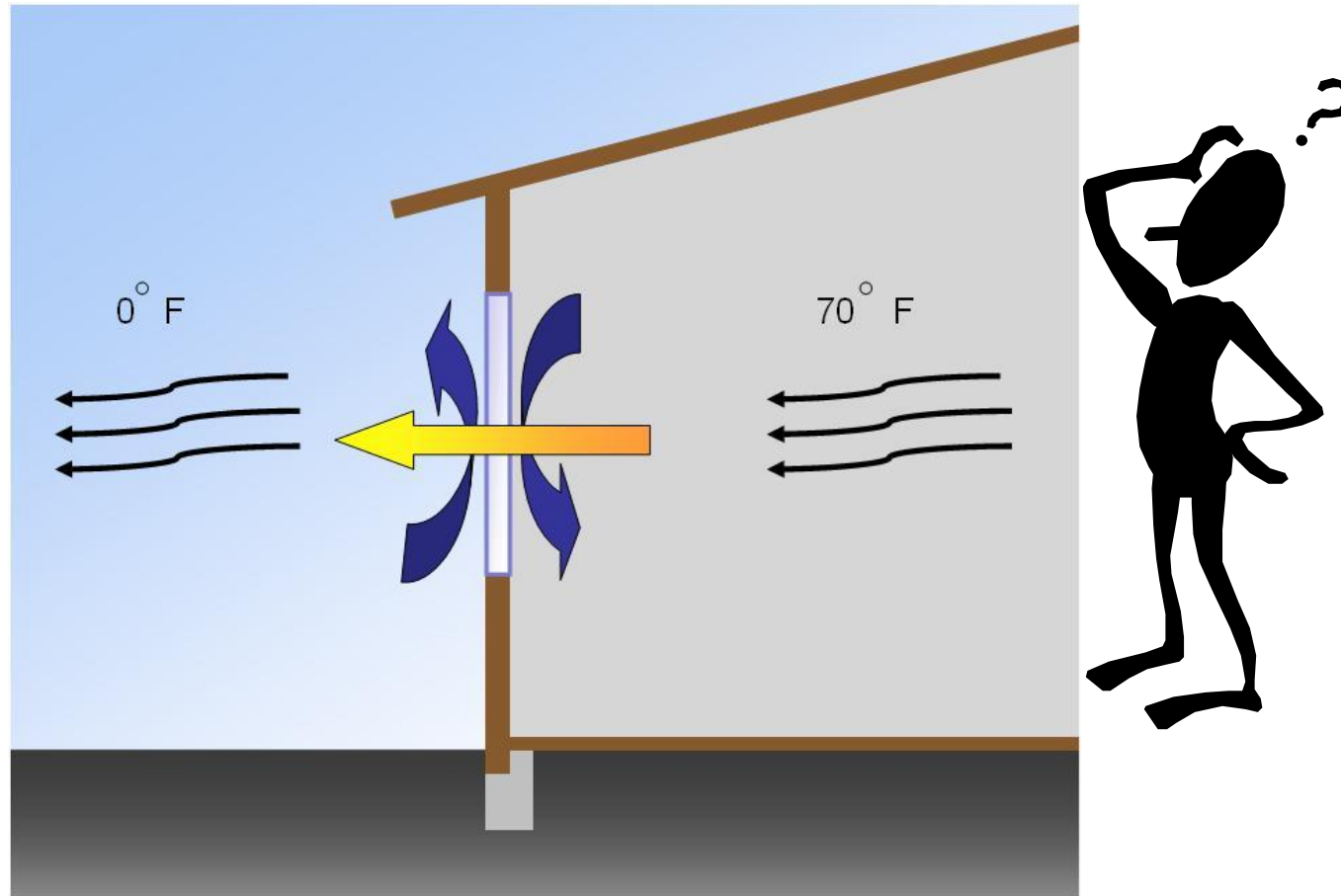
# Weatherization & Energy Use

- Doors & Windows



# Weatherization & Energy Use

- Windows



# Water & Energy Use



- Heating Water

- Efficient Shower Heads & Aerators
- Water heaters
- Laundry

