Energy Efficiency: Choose the ENERGY STARs

Lists key features of the appliance you're looking at and the similar models that make up the cost range below.

The maker, model, and size tell you exactly what product this label describes.

What you might pay to run the appliance for a year, based on its electricity use and the national average cost of energy. The cost appears on labels for all models and brands, so you can **compare** energy use just like you would price or other features.

The cost range helps you compare the energy use of different models by showing you the range of operating costs for models with similar features.

An estimate of how much electricity the appliance uses in a year based on typical use. Multiply this by your local electricity rate on your utility bill to better judge what your actual operating cost might be.

If you see the ENERGY STAR logo, it means the product is better for the environment because it uses less energy than standard models.

Federally-Backed Brand

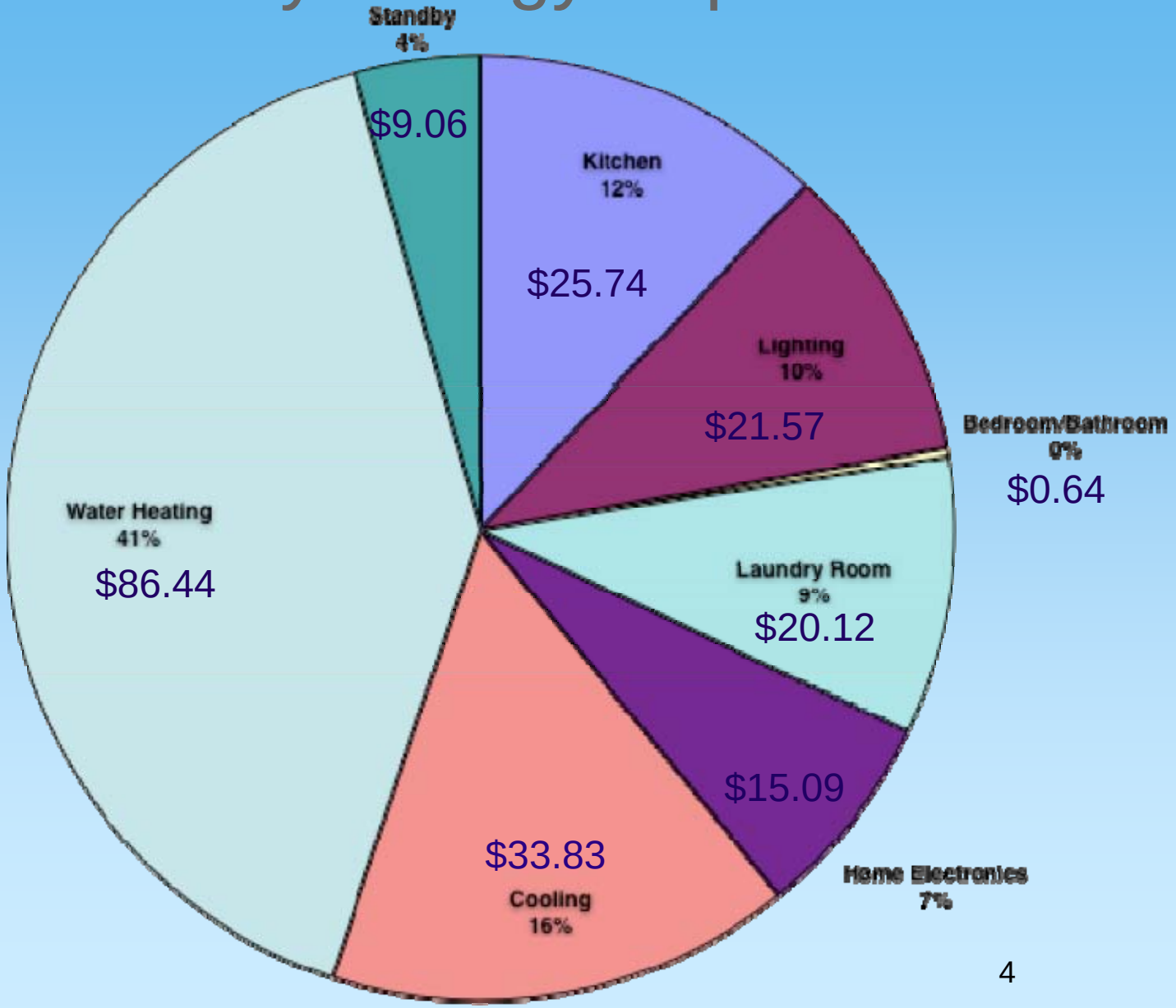
Indicates energy efficiency

Any manufacturer's products can qualify

"Cream of the Crop"

Average Monthly Energy Expenditures

Monthly Total $236.35



Saving Energy in the Kitchen

Electric Cooking

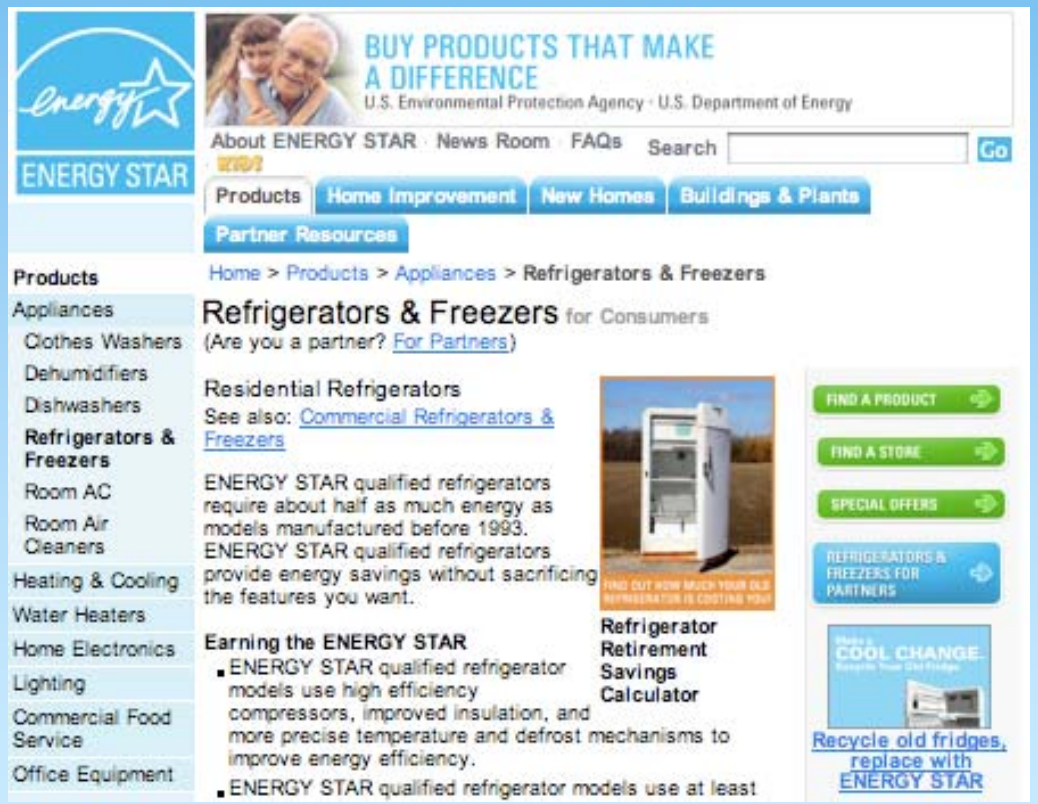
Induction Cooktop

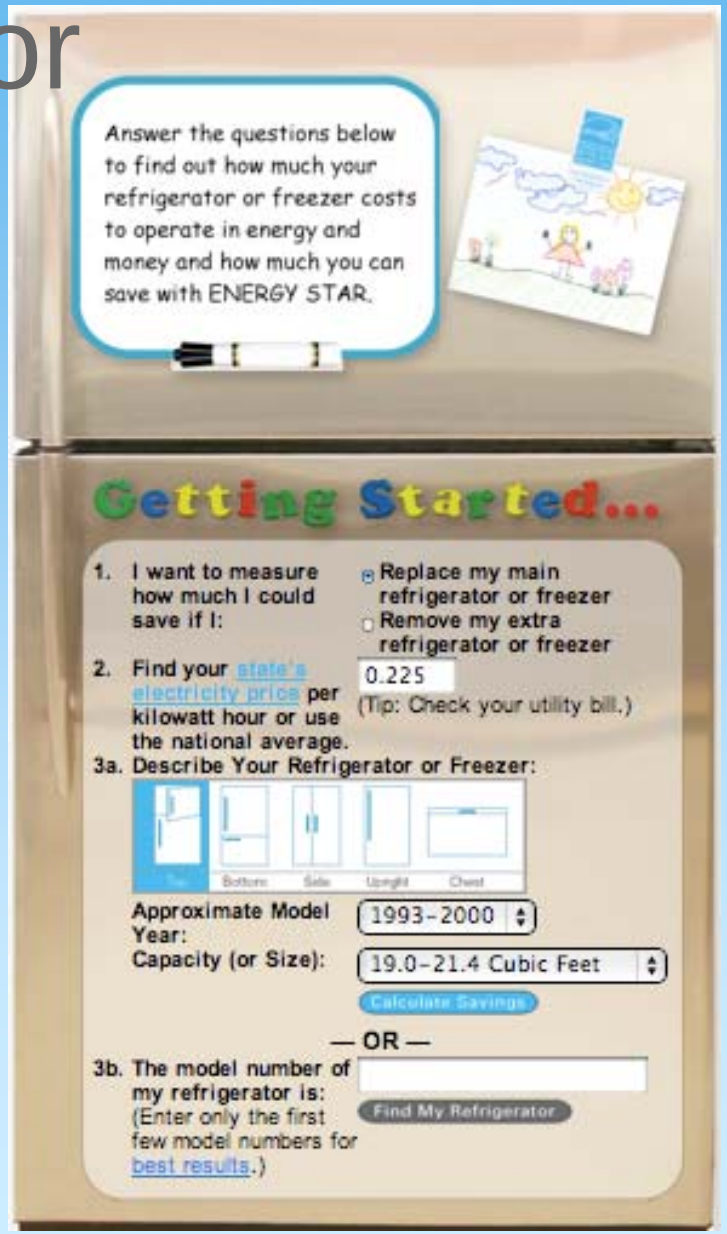
- Cooks with 90% efficiency
- Electric range = 65%
- Gas = 55%
- Use with Iron, Steel, Nickel, Various Alloys
- Safer- Cools Quickly

ENERGY STAR Refrigerators

- 20% More Efficient than Current Federal Standard
- 40% More Efficient than 2001 Models
- Save $300 Over Life of Product
- Replace a 10-year-old refrigerator to save $100 each year

Refrigerator Retirement Savings Calculator





Your Information
Model
19.0-21.4 Cubic Feet Top Freezer
Electricity Rate
$0.225
Annual Cost
$192.83
Annual kWh
857 kWh
Mike
your results...
You can save more than $505 over five years by replacing your old refrigerator or freezer with a new ENERGY STAR qualified model!
Your model costs...
$193 per year to run
An ENERGY STAR qualified model costs...
$92 per year to run
Find Out How
Note: If your refrigerator or freezer is a newer, ENERGY STAR qualified model your results may not display significant savings.

Best Practices

- Position
- Air-flow
- Clean coils
- Seals
- Temperature
- Keep Door Closed

“Close the door. It’s nice and cool in here!”

Dishwashers

- Save $100 each year in energy & water compared to hand-washing
- Save $30 each year compared to non-qualified model

Vs.

Laundry Room: Clothes Washer

- Save over $100 annually
- Larger capacity
- Easier on clothes
- Save a shower per load
- Reduce drying time

Clothes Drying

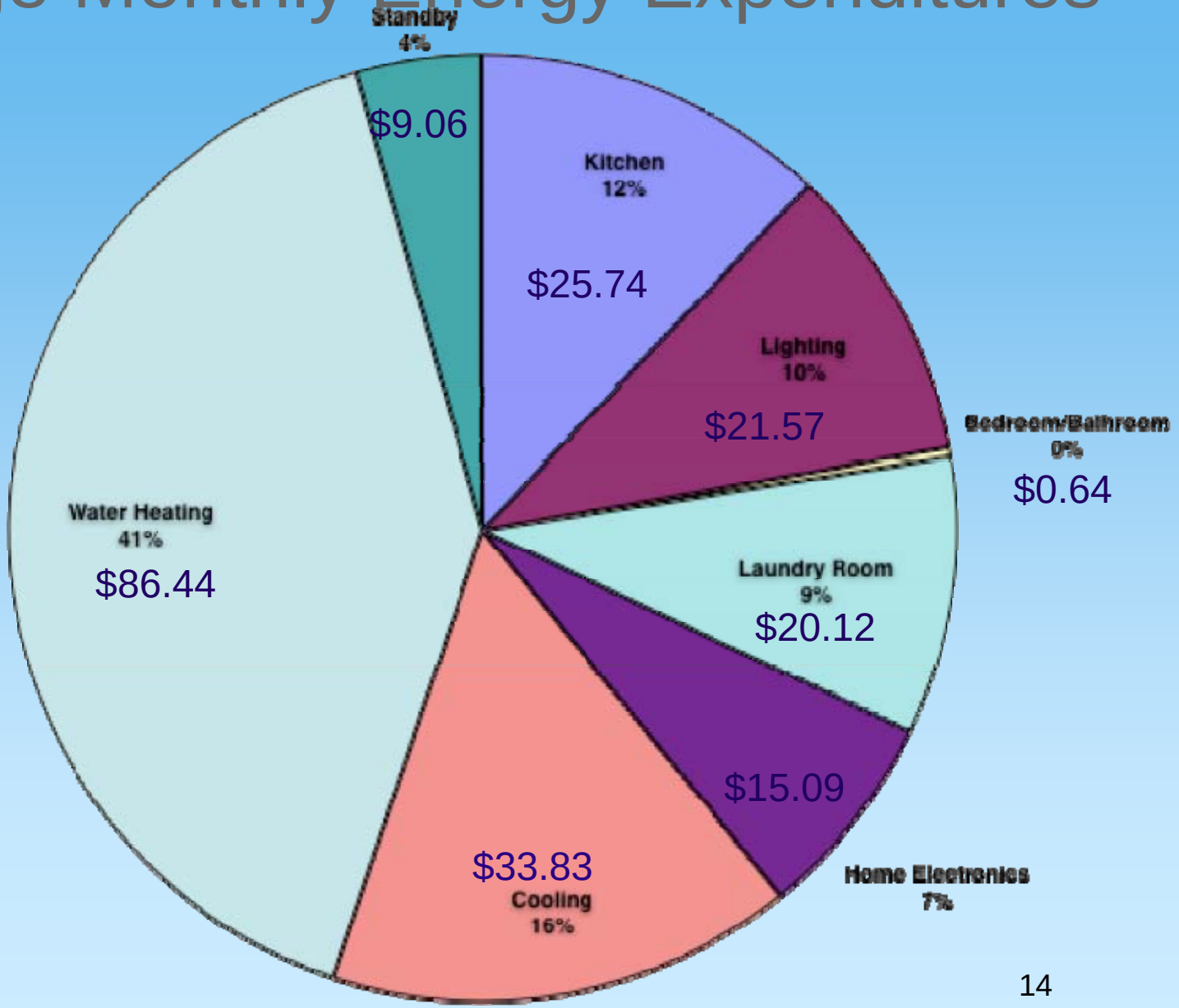
Up to 10% of Home Energy Use

Best Practices

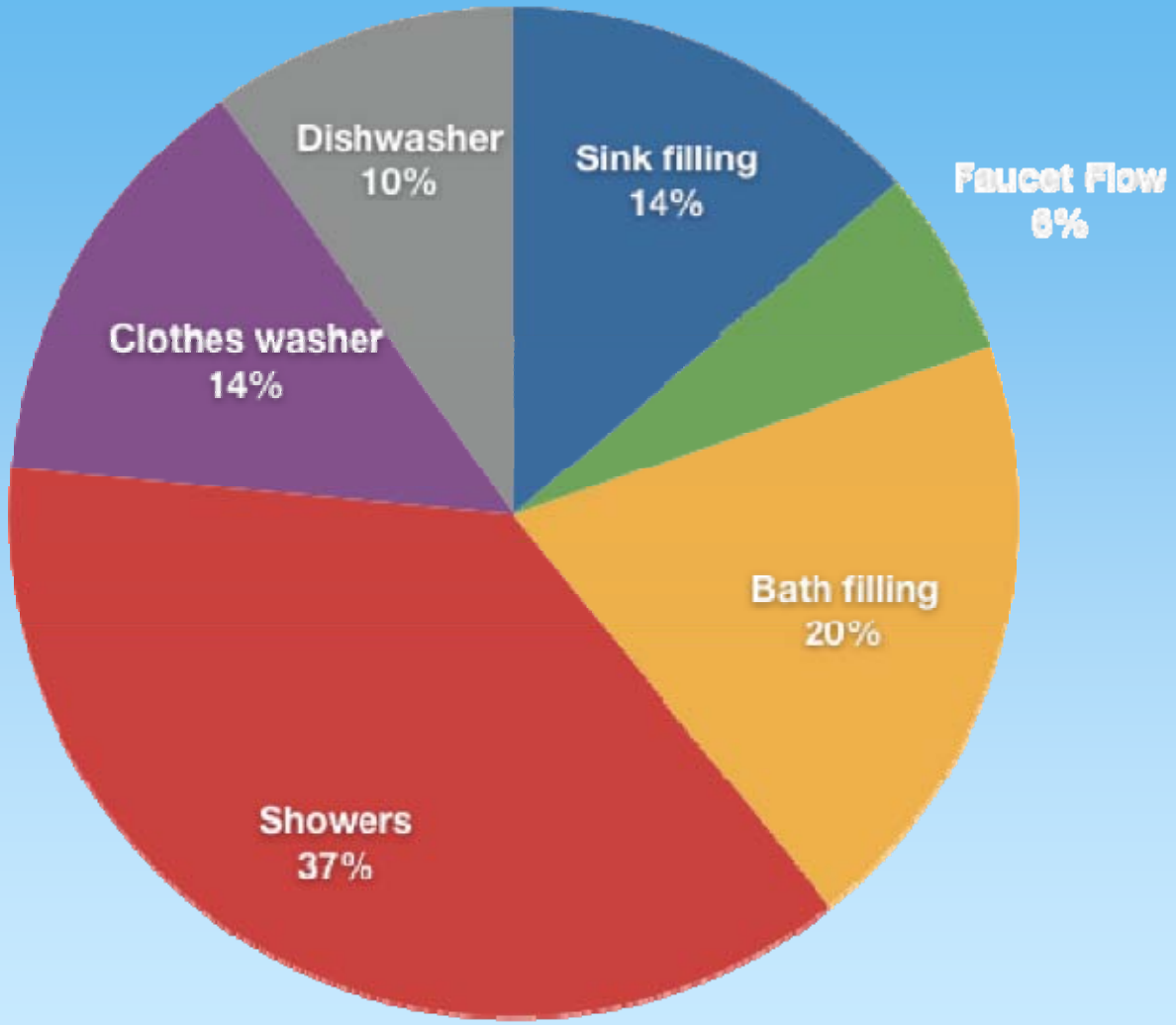
- Moisture Sensor
- Clean Lint Filter
- Proper Vent
- Air Intake

Average Monthly Energy Expenditures

Monthly Total $236.35



Hot Water Use Characteristics



Cut down on water use in showers and sinks with low-flow fixtures

Water Heating

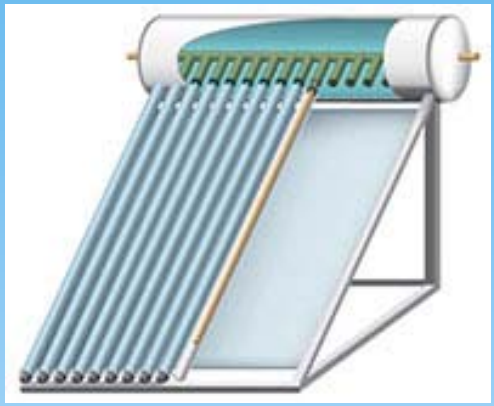
Heat-Pump Water Heaters

- Cut Energy Use in Half
- Cool Space they're in
- Coming Later this Year
- Save over $500/Year

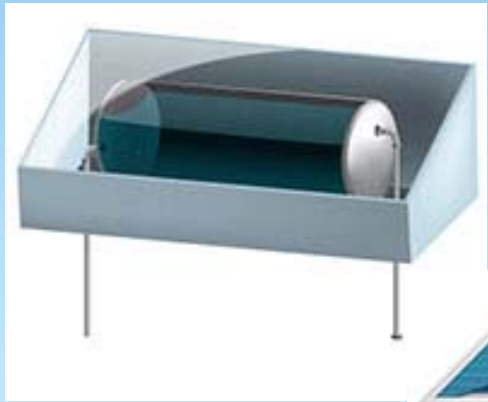
Water Heating

Solar Water Heaters

- Cut Energy Use in Half
- Last Up To 20 Years
- Federal Tax Credits
- Save over $500/Year



Evacuated Tube

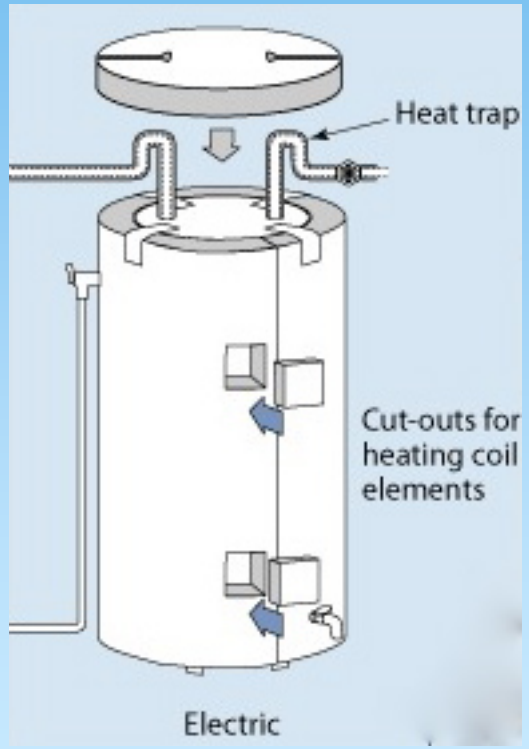


Batch

Flat-Plate

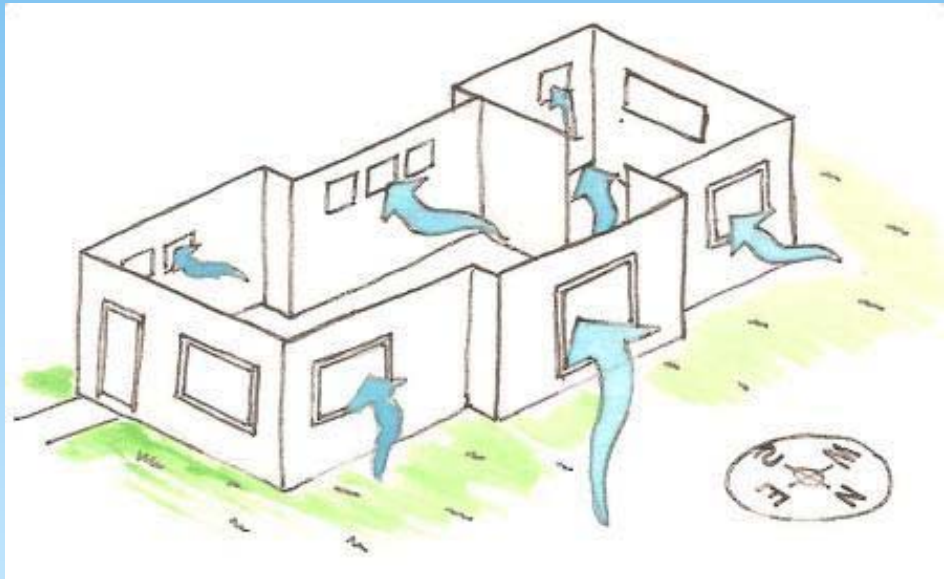
Water Heating Best Practices

- Insulate Tank
- Insulate First 6’ of Pipes
- Temperature
- Timer



Air Conditioning

- After Envelope
- Natural ventilation
- Properly Sized Units
- Maintenance
- Fans



Window placement encourages natural ventilation

SIZING YOUR AIR CONDITIONER

Area To Be Cooled (Square Feet)	Capacity Needed (BTUs per hour)
100 to 150	5,000
150 to 250	6,000
250 to 300	7,000
300 to 350	8,000
350 to 400	9,000
400 to 450	10,000
450 to 550	12,000
550 to 700	14,000
700 to 1,000	18,000
1,000 to 1,200	21,000
1,200 to 1,400	23,000
1,400 to 1,500	24,000
1,500 to 2,000	30,000
2,000 to 2,500	34,000

Also Consider:

- Shady vs. Sunny Room
- Occupancy
- Kitchen
- Placement

ENERGY STAR Air-Conditioner

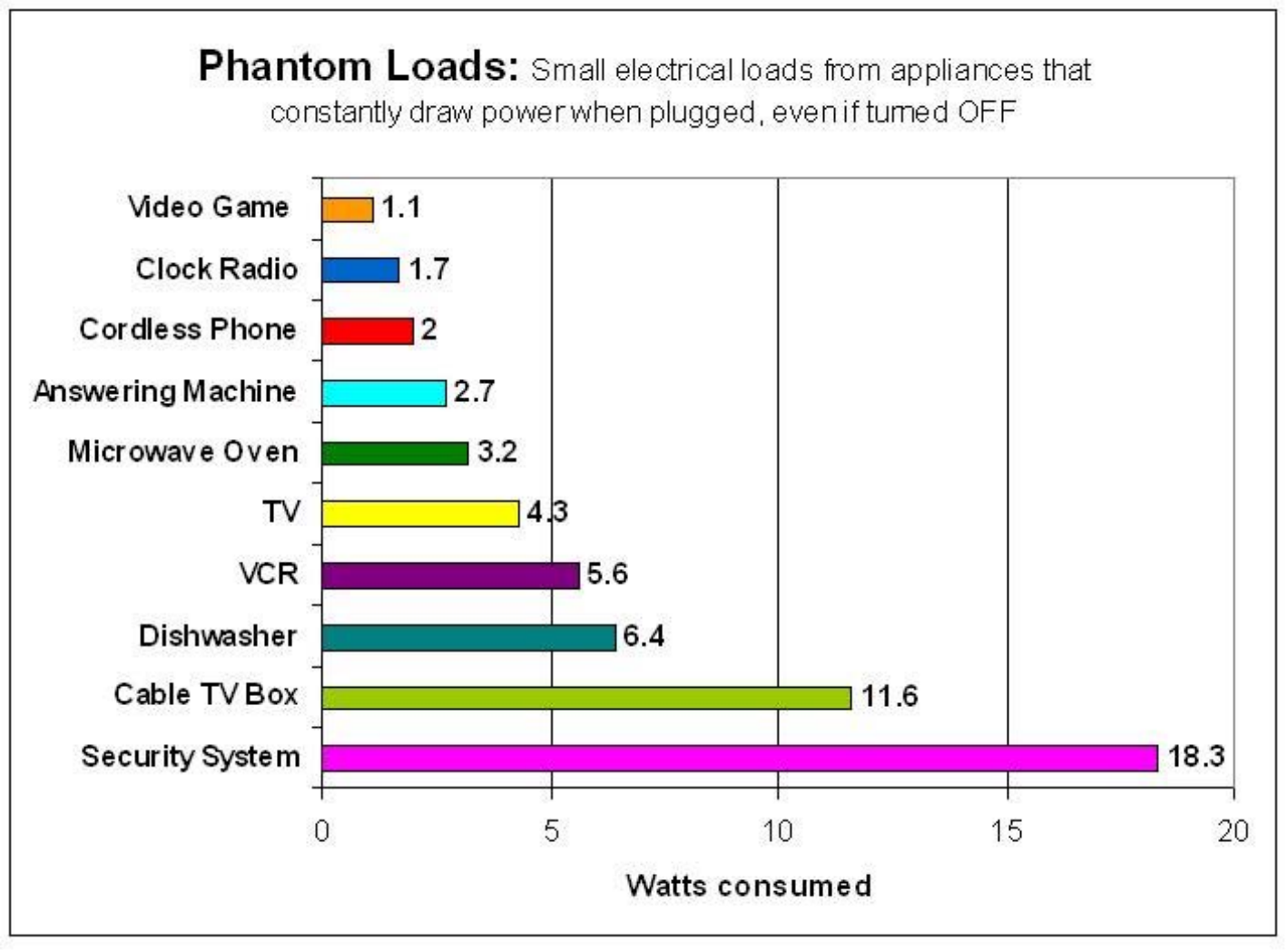
- 10% Less Energy
- Quieter
- Save $20 Each Year/Unit
- Programmable Controls

Phantom Loads

- Energy Vampires
- Almost 5% Energy Bills
- $10 / Month for Nothing

Smart Power Strip

Phantom Loads



Total = 56 Watts/hr while off!

Average Monthly Energy Expenditures

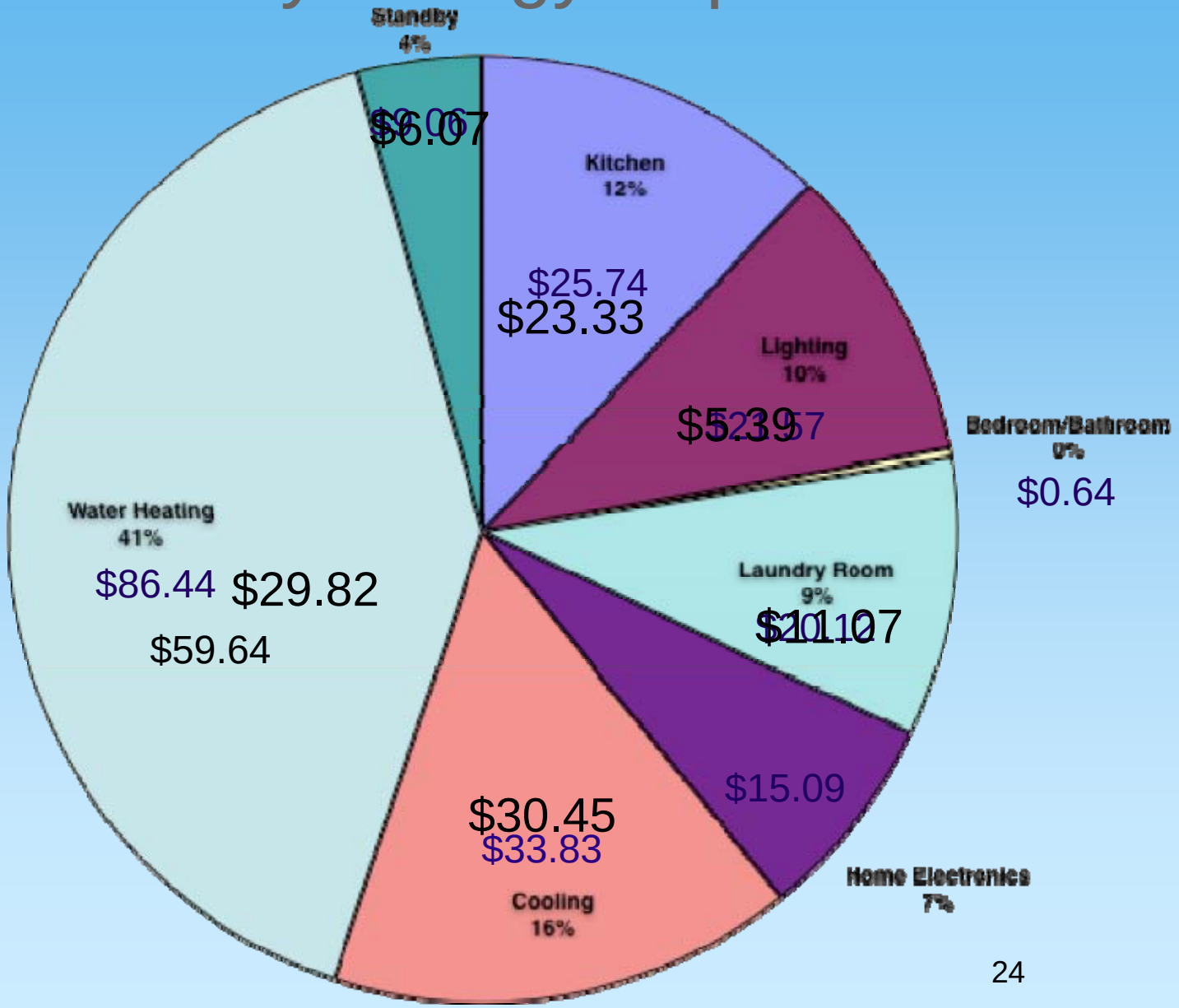
Monthly Total

Before
$236.35

After
$156.51

Savings
$78/month

$936/Year



You can make a difference!

QUESTIONS?