

LIST OF HOME APPLIANCES ENERGY USED:

John Avenson July 11, 2008

(WATTS = VOLTS x AMPS Example: 120v x 4.0 amps = 480 watts.)

LIGHTING:

	AMP	WATTS
Old Incandescent 60	.50	60 watts
Old Incandescent 75	.65	75 watts
Old Incandescent 100	.86	100 watts

NOTE: Rated lighting watts of incandescent equals the actual watts measured.

Halogen Flood 85	.41	45 watts
Halogen Flood 90	.43	50 watts
Halogen Flood 100	.67	75 watts
Halogen Outside 190	1.46	150 watts

NOTE: Halogens were the start of more lumens per amps than the incandescent, but still put out the same heat in watts as an old incandescent.

LED Flood 50watt	.09	10 watts
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(LED count = 134 LEDs)

CFL 60	.13	13 watt
CFL 90	.20	23 watt
CFL150	.52	42 watt
CFL 30	.09	7 watt

CF Compact Florescent Light
CF
CF
CF

T12 Florescent 4 foot (2 bulbs)	.90 amps	108 watts
T8 Florescent 4 foot (2 bulbs)	.42 amps	50 watts (same/better light for less the half the amps)

Under Cabinet lights (12 feet):

New LED light strips	= 0.24 amps	(28 watts)
T8 Fluorescent underCab	= 1.10 amps	(132 watts)
Halogen fixtures (very hot)	= 4.00 amps	(480 watts)
Amerelle Incandescent "Night Light", Home Depot	.03 amps	4 watt

COMPUTERS:

2.4 Dual Core Intel new Desktop	= 1.20 to 2.5 amps	(144.0 ~ 300 watts)
3 G-Hertz Desktop Computer	= 1.37 to 2.0 amps	(164.0 ~ 240. watts)
17 inch LCD display	= .01 (off) .37 amps	(1.2 ~ 44. watts)
333 Pentium2 old Laptop	= .33 to .48 amps	(39.0 ~ 57. watts (charging batter7))
T5700 Core Duo new Laptop	= .17 to .50 amps	(20.4 ~ 60. watts (charging battery))

KITCHEN: STOVE:

Small Burner	= 6.03 amps	(723 watts)
Large Burner	= 10.44 amps	(1,252 watts)
Broiler	= 15.00 amps	(1,800 watts)
Bake	= 10.50 amps	(1,260 watts)
Idle	= 0.11 amps	(13 watts) (new digital display only 2 watts)

Microwave	= 13.00 amps	(1,560 watts)
Mr. Coffee maker	= 7.1 amps	(852 watts)
Popcorn maker	= 7.7 amps	(924 watts)

AIR CONDITIONING:

Furnace Fan Blower (top speed) 2.0 – 3.0 amps 240~360 watts
Air Conditioning Compressor Unknown. (very high)
Evaporative Cooler Fan 1.5 - 2.0 amps 180~240 watts

REFRIGERATORS:

E-Star 23 cu ft. Refrig 2003= 0.75 amps (90 watts after 4 minutes, Sears Elite, Top Freezer)
Bar, 4 cu ft. Refrigerator 1990= 0.85 amps (old 2 cu ft pulls same as huge new 23 cu ft)
17 cu ft Refrigerator 1992 = 4.00 amps (480 watts GE Top Freezer)

LAUNDRY:

Electric Dryer 1997 = w/heat= 23 amps, cool 1 amp (Maytag)
Washing Machine 1997 = 6.70 amps spin= 7.0 amp (Maytag)

THEATER:

DVD player 2000 = .15 amps Toshiba
BluRay Hi Def 2008 = .22 to .4 amps Panasonic
HD DVD Hi Def 2006 = .4_ to .6 amps Toshiba
Sirius Radio (satellite) 2004 = .12 amps
13 in TV (CRT) 2000 = .6 amps

ELECTRIC BLANKETS (blankets click on/off periodically and don't pull this current all the time)

Queen Size (sample 1 of 2) 1.2 amp per half blanket Total = 2.4 amps (144 watts per person)
Queen Size (sample 2 of 2) 0.97 amps per half blanket Total = 1.9 amps (116 watts per person)

MONEY PER YEAR

(average spent in all USA per Non Profit "Electric Power Research Institute")

Air conditioning (Whole House) = \$800

Evaporative Cooler (Whole House) = \$ 70

Refrigerator = \$113

Plasma Screen TV = \$50-60

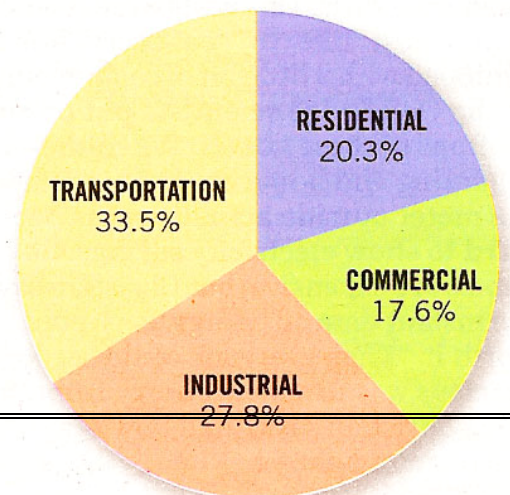
LCD TV = \$38-40

Set-Top Box (cable) = \$ 27

Digital Photo Frame = \$ 9

Close to Home

U.S. homes, offices, and factories account for more greenhouse gas emissions than cars and other transportation because of coal burned to generate electricity.



*Total does not equal 100 because of rounding
Source: Energy Information Administration

http://www.energystar.gov/index.cfm?fuseaction=home_energy_yardstick.showStep1

Home energy calculator (need your utility bills to fill in blanks)

http://www.energystar.gov/index.cfm?fuseaction=home_energy_advisor.showGetInput

Another Home energy calculator

<http://www.fueleconomy.gov/feg/> Gas economy of cars

<http://www.lightingdesignlab.com/articles/halogen/halogen.htm> Heat comparison of Halogen and Fluorescent

http://www.mygreenlee.com/Products/main.shtml?p_search=light+meter&greenlee_category_id=100 Light meters

<http://tristate.apogee.net/lite/> Home page, Analysis of different Lighting

<http://tristate.apogee.net/lite/bnocost.asp> Low cost home energy improvements

<http://tristate.apogee.net/lite/bnocume.asp> to see the following chart:

Lamp Life and Efficiency		
Life (hours)	Lamp	Efficiency (lumens per watt)
2,000 - 5,000	Reflector incandescent	7 - 19
750 - 2,500	Standard incandescent	8 - 24
1,000 - 3,000	Tungsten-Halogen	12 - 36
12,000 - 24,000	Mercury vapor	20 - 63
7,500 - 24,000	Fluorescent (tubular)	41 - 91
7,500 - 10,000	Compact fluorescent	50 - 83
10,000 - 20,000	Metal halide	56 - 125
12,000 - 24,000	High pressure sodium	61 - 140
10,000 - 18,000	Low pressure sodium	100 - 183

http://www.nolico.com/saveenergy/23_watt_dimmable_swirl.htm list of **Dimmable compact Fluorescent** bulbs.

Google for " Dimmable compact florescent bulbs"

<http://www.oldcastleglass.com/> Education about the glass/window technology.

<http://www.nrel.gov/> National Renewable Energy Laboratory, Golden Colorado

U.S. News & World Report April 28th, 2008: Electric motors account for about 65% of power consumed by industry and nearly ¼ of all electricity sold (in USA).

SMART STRIP (power strip) automatically senses when the primary device is shut off (Computer or Stereo Receiver) and then cuts the power off to all other items plugged into the strip, such as printers or VCR/DVD players.

Order at Amazon.com (not available Lowes or Home Depot)

Comes in two sizes:

Large \$38

Small \$28

