



A Day in the Life

David Marrett
Murrieta High School
Murrieta Valley Unified School District

Overview:

Students practice simple data collection, tabulation, graphing, and analysis in this energy awareness exercise. Next, they design a conservation plan. Finally, they study how to implement the plan.

Objectives:

Before effective conservation of resources can start, people need a good awareness of resource consumption patterns, including their own. This exercise will build awareness first then plan for conservation.

Subjects: Environmental Science, Earth Science, Physics

Suggested Grade Level: 10-12

California Standards Addressed: Laws of thermodynamics, especially first and second laws (1st= conservation of energy; 2nd=entropy)

Time: 6.5 hour lesson segments over 3 weeks

Materials:

Notebook
Access to Internet for Research

Preparation and Background:

As part of a unit on natural resource conservation, students learn the laws of thermodynamics that any "change" requires energy, energy is conserved, but constantly transformed and that nature moves toward higher disorder (entropy)

Procedure:

Students note all "changes" and energy sources during one school day (6:30am to 9:00pm). Tabulate data and research sources of energy involved. All energy units will be converted to kilo joules (kJ)

For Discussion:

After students submit first draft reports, energy expenditures are classified as falling into 1 of 3 categories:

- 1) Absolutely necessary
- 2) Convenient and useful, but not really needed

3) Wasteful

In small groups, then reporting out to the whole class, discuss how perceptions differ among the same activities.

Extensions:

Each student writes an energy saving plan, calculating percentages. Students then attempt implementation and monitor successes and challenges.

Resources:



Common Household Appliance Energy Use

Listed below are some common appliances, their wattage and an estimate of operating costs.

Appliance	Watts	Hours/Mo	kWh/Mo	Avg. \$/Mo
Air Conditioner (Room) 6,000 BTU	750	120 - 720	90 - 540	6.75 - 40.50
Air Conditioner (Room) 9,000 BTU	1050	120 - 720	126 - 756	9.45 - 56.70
Air Conditioner (Central) 2.5 Tons	3500	240 - 860	850 - 3000	63.75 - 225.00
Can Opener	175	1/12 - 1	.01 - .18	.00 - .01
Ceiling Fan	60	15 - 330	1 - 20	.08 - 1.50
Clock	5	720	4	.30
Clothes Dryer	5000	6 - 28	30 - 140	2.25 - 10.50
Clothes Washer, Automatic (With Electric Water Heating)	500	7 - 40	33 - 196	2.48 - 14.70
Clothes Washer, Automatic (With Non-Electric Water Heating)	500	7 - 40	3 - 16	.23 - 1.20
Coffee Maker	900	4 - 30	4 - 27	.30 - 2.03
Computer (Monitor & Printer)	200	25 - 160	5 - 32	.38 - 2.40
Dehumidifier	350	120 - 720	42 - 252	3.15 - 18.90
Dishwasher (With Electric Water Heating)	1300	8 - 40	20 - 102	1.50 - 7.65
Dishwasher (With Non-Electric Water Heating)	1300	8 - 40	3 - 16	.23 - 1.20
Drill	300	3 - 7	1 - 2	.08 - .15
Electric Blanket	180	30 - 90	5 - 16	.38 - 1.20
Electric Heater (Portable)	1200	30 - 90	30 - 90	2.25 - 6.75
Fan (Portable)	115	18 - 52	2 - 6	.15 - .45
Food Blender	390	3 - 5	1 - 2	.08 - .15

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Food Freezer (15 cu. ft.)	335	180 - 420	60 - 140	4.50 - 10.50
Frying Pan	1150	10 - 20	12 - 23	.90 - 1.73
Furnace Fan Motor (Intermittent)	350	160 - 415	56 - 145	4.20 - 10.88
Furnace Fan Motor (Continuous)	350	720	252	18.90
Hair Dryer (Portable)	1000	1 - 10	1 - 10	.08 - .75
Heating Pad	65	15 - 30	1 - 2	.08 - .15
Humidifier (Portable)	100	80 - 540	8 - 54	.60 - 4.05
Iron (Hand)	1000	1 - 10	1 - 10	.08 - .75
Lighting Single Lamp (60W)	60	17 - 200	1 - 12	.08 - .90
Compact Fluorescent (60W Equiv)	18	17 - 200	.3 - 3.6	.02 - .27
Ceiling Fixture (3 bulbs)	180	6 - 195	2 - 35	.15 - 2.63
Tri-Light (Table Lamp)	100	10 - 200	1 - 20	.08 - 1.5
Chandelier (5 Lamp)	300	10 - 183	3 - 55	.23 - 4.13
Fluorescent (2 Tube 4 ft.)	100	10 - 200	1 - 20	.08 - 1.50
Microwave Oven	1300	5 - 30	5 - 30	.38 - 2.25
Power Saw	275	2 - 4	.6 - 1	.05 - .08
Range	12500	10 - 50	125 - 625	9.38 - 46.88
Range (Self Cleaning Cycle Only)	3200	1/2 - 1 1/2	2 - 5	.15 - .38
Refrigerator-Freezer Frost Free (17 cu. ft.)	500	150 - 300	75 - 150	5.63 - 11.25
Refrigerator (Non Frost Free - 13 cu. ft.)	300	190 - 300	56 - 90	4.20 - 6.75
Sewing Machine	75	4 - 14	.3 - 1	.02 - .08
Stereo	30	1 - 170	0.03 - 5.1	0.01 - 0.38
Television	180	60 - 440	5 - 35	.38 - 2.63
Toaster	1150	1 - 3.5	1 - 4	.08 - .30
Toothbrush	10	1 - 2	.01 - .02	.00
Vacuum Cleaner (Portable)	800	2 - 6	2 - 5	.15 - .38
Video Cassette Recorder	40	50 - 200	1 - 8	.08 - .60
Water Bed Heater	400	150 - 300	60 - 120	4.50 - 9.00
Water Heater Typical Family of 4	3800	98 - 138	375 - 525	28.13 - 39.38

Appliance Wattages

Appliance	Rated Watts	Surge Watts
Lighting	Sum of all standby lighting	
Refrigerator / Freezer	500	2000
Sump Pump	800	2000
Water Pump (1/3 HP)	1000	3000
Furnace Fan (1/2 HP)	875	2300
Electric Blanket	400	400
Space Heater	1800	1800
Heat Pump	4700	12000
Dehumidifier	650	800
Attic Fan	300	900
Table Fan	800	2000
Window Air Conditioner	1200	4800
Central Air (10k BTU)	1500	6000
Central Air (24k BTU)	3800	15000
Central Air (40k BTU)	6000	24000
Computer	300	300
CD Player	100	100
VCR	100	100
Radio	100	100
Television	300	300
Receiver	420	420
Microwave	800	800
Blender	300	900
Coffee Maker	1500	1500
Electric Range (1 element)	1500	1500
Toaster (2-slice)	1000	1600
Dishwasher (Hot Dry)	1500	3000
Electric Oven	3400	3400
Iron	1200	1200
Washing Machine	1150	3400
Gas Clothes Dryer	700	2500
Electric Clothes Dryer	5400	6750
Security System	500	500
Deep Freezer	500	1000
Hair Dryer	1200	1200
Garage Door Opener (1/3 HP)	750	750
Electric Water Heater	4000	4000

Appliances and Approximate Wattages.

Appliance	Wattage	Appliance	Wattage
Lighting - Basic	1,200 Watts	Lighting - Full	4,000 Watts
Electric Heat	5,000 Watts	Electric Water Heater	5,000 Watts
Refrigerator - 20 Cu Ft	800 Watts	Freezer - 20 Cu Ft	550 Watts
Sump Pump	900 Watts	Well Pump ½ HP	1,000 Watts
Well Pump 1HP	2,000 Watts	Garage Door Opener ½ HP	400 Watts
Microwave Oven 1000W	1,500 Watts	Dishwasher	400 Watts
Toaster	900 Watts	Computer	250 Watts
Electric Range Oven	7500 Watts	TV - 32" Color	170 Watts
VCR	60 Watts	Stereo System	140 Watts
Clothes Iron	1100 Watts	Electric Clothes Dryer	6000 Watts
Washing Machine	1000 Watts	Hair Dryer	1600 Watts
Air Conditioning 1 Ton	2,000 Watts	Air Conditioning 2 Ton	3,000 Watts
Air Conditioning 3 Ton	4,500 Watts	Window A/C	2000 Watts
Vacuum Cleaner	780 Watts	Central Vacuum	1750 Watts



Consumer Energy Information: EREC Reference Briefs

Energy Use of Some Typical Home Appliances

If you want a general estimate of how much electricity your home appliances consume, you can refer to the list below, which provides the energy consumption (Wattage) of some typical home appliances. If you have appliances that are not listed in the table, or desire a more exact figure based on a specific appliance in your home, use the following formula to estimate the amount of energy a specific appliance consumes:

$$\frac{\text{Wattage} \times \text{Hours Used Per Day}}{1000}$$

= Daily Kilowatt-hour (kWh) consumption
(1 kilowatt (kW) = 1,000 Watts)

Multiply this by the number of days you use the appliance during the year for the annual consumption. You can then calculate the annual cost to run an appliance by multiplying the kWh per year by your local utility's rate per kWh consumed.

For examples:

Window fan:

$$\frac{200 \text{ Watts} \times 4 \text{ hours/day} \times 120 \text{ days/year}}{1000}$$

= 96 kWh × 8.5 Cents/kWh
= \$8.16 /year

Personal Computer and Monitor:

$$\frac{(120+150) \text{ Watts} \times 4 \text{ hours/day} \times 365 \text{ days/year}}{1000}$$

= 394 kWh × 8.5 Cents/kWh
= \$33.51/year

You can usually find the wattage of most appliances stamped on the bottom or back of the appliance, or on its "nameplate." The wattage listed is the maximum power drawn by the appliance. Since many appliances have a range of settings (for example, the volume on a radio), the actual amount of power consumed depends on the setting used at any one time.

Here are some examples of the range of nameplate wattages for various household appliances:

- Aquarium = 50-1210 Watts
- Clock radio = 10
- Coffee maker = 900-1200
- Clothes washer = 350-500
- Clothes dryer = 1800-5000
- Dishwasher = 1200-2400 (using the drying feature greatly increases energy consumption)

Dehumidifier = 785
Electric blanket- *Single/Double* = 60 / 100
Fans
 Ceiling = 65-175
 Window = 55-250
 Furnace = 750
 Whole house = 240-750
Hair dryer = 1200-1875
Heater (*portable*) = 750-1500
Clothes Iron = 1000-1800
Microwave oven = 750-1100
Personal Computer
 CPU - awake / asleep = 120 / 30 or less
 Monitor - awake / asleep = 150 / 30 or less
 Laptop = 50
Radio (*stereo*) = 70-400
Refrigerator (*frost-free, 16 cubic feet*) = 725
Televisions (color)
 19" = 65-110
 27" = 113
 36" = 133
 53"-61" Projection = 170
 Flat Screen = 120
Toaster = 800-1400
Toaster Oven = 1225
VCR/DVD = 17-21 / 20-25
Vacuum cleaner = 1000-1440
Water heater (*40 gallon*) = 4500-5500
Water pump (*deep well*) = 250-1100
Water bed (*w/ heater, no cover*) = 120-380

Refrigerators, although turned "on" all the time, actually cycle on and off at a rate that depends on a number of factors. These factors include how well it is insulated, room temperature, freezer temperature, how often the door is opened, if the coils are clean, if it is defrosted regularly, and the condition of the door seals. To get an approximate figure for the number of hours that a refrigerator actually operates at its maximum wattage, divide the total time the refrigerator is plugged in by three.

If the wattage is not listed on the appliance, you can still estimate it by finding the current draw (in amperes) and multiplying that by the voltage used by the appliance. Most appliances in the United States use 120 volts. Larger appliances, such as clothes dryers and electric cooktops, use 240 volts. The amperes might be stamped on the unit in place of the wattage. If not, find a clamp-on ammeter—an electrician's tool that clamps around one of the two wires on the appliance—to measure the current flowing through it. You can obtain this type of ammeter in stores that sell electrical and electronic equipment. Take a reading while the device is running; this is the actual amount of current being used at that instant.

Note: When measuring the current drawn by a *motor*, in the first second that the motor starts, the meter will show about three times the current than when it is running smoothly.

Also note that *many appliances continue to draw a small amount of power when they are switched "off."* These "phantom loads" occur in most appliances that use electricity, such as VCRs, televisions, stereos, computers, and kitchen appliances. Most phantom loads will increase the appliance's energy consumption a few watts per hour. These loads can be avoided by unplugging the appliance or using a power strip and using the switch on the power strip to cut all power to the appliance.

Appliance Wattage Hours/Month

Blender _____
Bread maker _____
Broiler _____
Can opener _____
Coffee maker _____
Cooktop/range _____
Crockpot _____
Dishwasher – heated dry cycle _____
Dishwasher – no dry cycle _____
Food processor _____
Freezer (approx. 16 cu.ft.) _____
Frying pan/skillet _____
Fryer – deep fat _____
Garbage disposal _____
Griddle _____
Ice cream maker _____
Ice crusher _____
Microwave oven _____
Mixer – hand-held _____
Mixer – stand _____
Oven – electric _____
Popcorn popper _____
Refrigerator – dorm size _____
Refrigerator/freezer – standard size _____
Roaster _____
Rotisserie _____
Toaster oven _____
Toaster – two-slice _____

Appliance Wattage Hours/month

Clothes dryer – electric _____
Clothes washer _____
Iron _____

Appliance Wattage Hours/month

Curling iron _____
Electric blanket _____
Hair dryer _____
Heating pad _____
Indoor whirlpool tub _____
Outdoor hot tub _____
Shaver _____
Sun lamp/heat lamp _____
Waterbed heater – queen _____

Appliance Wattage Hours/month

Computer _____
DVD _____
Fax machine _____
Radio or clock-radio _____
Stereo _____
Television – 13-inch _____
Television – 35-inch _____
VCR _____

Product Wattage Hours/month

Compact fluorescent bulbs _____
 Incandescent bulbs _____
 Holiday lights – large _____
 Holiday lighting – small _____
 Outdoor lights – buglight _____
 Outdoor lights – flood or spot _____
 Outdoor lights – lamppost _____
 Outdoor lights – porch light _____

Product Wattage Hours/month

Belt sander _____
 Circular saw _____
 Disk sander _____
 Drill _____
 Electric lawn mower _____
 Garage door opener _____
 Hedge clipper _____
 Saber saw/jigsaw _____
 Soldering gun _____

Product Wattage Hours/month

Aquarium heater _____
 Clock _____
 Engine block heater _____
 Sewing machine _____
 Sump pump _____
 Swimming pool pump _____
 Vacuum cleaner _____
 Vacuum – central system _____
 Water heater – electric _____
 Water softener _____
 Well or water pump _____

Electricity Consumption Score Card

Appliances	Average Wattage	Average Hours per year	Est. KWH Used/Year	Cost Per Year (at 4 cents)
Comfort/Conditioning				
Air Cleaner	50	4320	216	8.64
Air Conditioner*	860	1000	860	34.40
Air Conditioner*	3,750	1000	3750	150.00
Blanket	177	831	147	5.88
Dehumidifier	257	1467	377	15.08
Fan, Attic	370	786	291	11.64
Fan, Circulating	88	489	43	1.72
Fan, Rollaway	171	807	138	5.52
Fan, Window	200	850	170	6.80
Heat Lamp (infrared)	250	52	13	.52
Heating Pad	65	154	10	.40

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Humidifier	177	921	163	6.52
Space Heater--portable	1,322	133	176	7.04
Lighting Fixtures (when figuring, do each light fixture separately--then add together. Lighting is said to account for one-fifth to one-fourth of the average electric bill.	40 to 300			
Food Preparation				
Blender	386	39	15	.60
Broiler	1,436	70	100	4.00
Coffee Maker	894	119	106	4.24
Deep Fryer	1,448	57	83	3.32
Dishwasher	1,201	302	363	14.52
Disposer, waste-garbage	445	67	30	1.20
Egg Cooker	516	27	14	.56
Fry pan**	1,196	155	186	7.44
Knife, Slicing	92	87	8	.32
Microwave Oven	1,450	131	190	7.60
Mixer	127	102	13	.52
Range with oven	12,200	96	1171	46.84
Range with self-cleaning oven	12,200	99	1208	48.32
6" unit, high setting***	1,400			
8" unit, high setting***	2,600			
Oven built-in	6,000			
Roaster	1,333	154	205	8.20
Sandwich Grill	1,161	28	33	1.32
Toaster	1,146	34	39	1.56
Waffle Iron	1,116	20	22	.88
Food Preservation				
Freezer				
15 cu ft upright	341	3504	1195	47.80
15 cu ft upright frostless	440	4002	1761	70.44
Refrigerator				
12 cu ft	241	3021	728	29.12
12 cu ft frostless	321	3791	1217	48.68
Refrigerator-freezer				
14 cu ft	326	3488	1137	45.48
14 cu ft frostless	615	2974	1829	73.16
Health and Beauty				
Curling Iron	40	50	2	.08

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Hair Dryer	750	51	38	1.52
Shaver	14	129	2	.08
Sunlamp	279	57	16	.64
Tooth brush	7	71	0.5	.02
Vibrator	40	50	2	.08
Home Entertainment				
Radio	71	1211	86	3.44
Radio-Record Player	109	1000	109	4.36
Television				
Black-White				
Tube	160	2188	350	14.00
Solid State	55	2182	120	4.80
Color				
Tube	300	2200	660	26.40
Solid State	200	2200	440	17.60
Housewares				
Clock	2	8760	17	.68
Floor Polisher	305	49	15	.60
Garage Door Opener	350	30	10	.40
Garden tools				
edger	190	10	2	.08
hedge trimmer	265	16	4	.16
Hot plate	1,257	72	90	3.60
Sewing Machine	75	147	11	.44
Trash Compactor	1,380	24	33	1.32
Vacuum Cleaner	630	73	46	1.84
Laundry				
Clothes Dryer	4,856	205	995	39.80
Iron (hand)	1,008	143	144	5.76
Washing machine (automatic) (2500 KWH/year including energy used to heat water)	512	208	107	4.28
Washing machine (non-automatic) (2497 KWH/year including energy used to heat water)	286	266	76	3.04
Water Heater	4,474	1075	4811	192.44

*Based on 1000 hours of operation per year. This figure will vary widely depending on geographical area and specific size of unit.

**Thermostatically controlled units cycle on and off. Estimates of "hours of use" are based on the time the heat element is "on" and will be less than actual switch-on time.

***Number of hours used varies widely.

Typical Operating Costs of Electric Household Appliances

Appliance	Typical Wattage	Estimated Hours Used Per Month	Estimated Monthly kWh	Cost Per Month at 13¢ Per kWh
Air Conditioner (12,000 BTU)	1500 W	200.0 hrs	300.0 kWh	\$39.00
Air Conditioner (5,000 BTU)	700 W	200.0 hrs	140.0 kWh	\$18.20
Auto Engine Heater	600 W	40.0 hrs	24.0 kWh	\$3.12
Battery Charger (Car)	150 W	15.0 hrs	2.3 kWh	\$0.30
Blender	385 W	2.0 hrs	.8 kWh	\$0.10
Bug Zapper	40 W	300.0 hrs	12.0 kWh	\$0.09
CD, Tape, Radio, Receiver System	250 W	60.0 hrs	15.0 kWh	\$1.95
Clock	3 W	730.0 hrs	2.2 kWh	\$0.29
Clothes Dryer	5000 W	17.0 hrs	85.0 kWh	\$11.05

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Coffee Maker (Auto Drip)	1165 W 4.0 hrs 4.7 kWh \$0.61
Compactor	400 W 10.0 hrs 4.0 kWh \$0.52
Computer (With Monitor and Printer)	365 W 75.0 hrs 27.4 kWh \$3.53
Convection Oven	1500 W 8.0 hrs 12.0 kWh \$1.56
Curling Iron	1500 W 5.0 hrs 7.2 kWh \$0.94
Dehumidifier (20 Pints, Summer)	450 W 360.0 hrs 162.0 kWh \$21.06
Dishwasher (Dry Cycle)	1200 W 25.0 hrs 30.0 kWh \$3.90
Dishwasher (Wash Cycle)	200 W 25.0 hrs 5.0 kWh \$0.65
Disposal	420 W 60.0 hrs 25.2 kWh \$3.28
Electric Blanket	175 W 180.0 hrs 31.5 kWh \$4.10
Electric Heat (Baseboard, Furnace, Heat Pump)	

Call Cornhusker Power for a heating estimate.

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Fan (Attic)	400 W 71.0 hrs 28.4 kWh \$3.69
Fan (Ceiling)	80 W 150.0 hrs 12.0 kWh \$1.56
Freezer (Automatic Defrost 15 cu. ft.)	440 W 334.0 hrs 147.0 kWh \$19.11
Freezer (Manual Defrost, 15 cu. ft.)	350 W 292.0 hrs 102.2 kWh \$13.29
Fry Pan	1200 W 10.0 hrs 12.0 kWh \$1.56
Garage Door Opener	350 W 3.0 hrs 1.1 kWh \$0.14
Hair Dryer (Hand Held)	1000 W 10.0 hrs 10.0 kWh \$1.30
Heat Lamp	250 W 5.0 hrs 1.3 kWh \$0.17
Heat Tape (30ft., Winter)	180 W 720.0 hrs 129.6 kWh \$16.85
Heater (Auto Engine, Winter)	1000 W 180.0 hrs 180.0 kWh \$23.40
Heater (Portable)	1500 W

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	40.0 hrs
	60.0 kWh
	\$7.80
Heating System (Warm Air Fan)	
	312 W
	288.0 hrs
	89.9 kWh
	\$11.69
Humidifier (Winter)	
	177 W
	230.0 hrs
	40.7 kWh
	\$5.29
Iron	
	1000 W
	5.0 hrs
	5.0 kWh
	\$0.65
Jacuzzi (Maintain Temperature, 2 Person)	
	1500 W
	93.0 hrs
	139.5 kWh
	\$18.14
Lighting (Incandescent)	
	75 W
	100.0 hrs
	7.5 kWh
	\$0.98
Lighting (Fluorescent)	
	40 W
	100.0 hrs
	4.0 kWh
	\$0.52
Lighting (Compact Fluorescent)	
	18 W
	100.0 hrs
	1.8 kWh
	\$0.23
Lighting (Outdoor Floor)	
	120 W
	90.0 hrs
	10.8 kWh
	\$1.40
Microwave Oven	
	1500 W
	11.0 hrs
	16.5 kWh
	\$2.15
Mixer, Hand	
	100 W
	10.0 hrs

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	1.0 kWh \$0.13
Motor (1 HP)	
	1000 W 20.0 hrs 20.0 kWh \$2.60
Power Tools (Circular Saw)	
	1800 W 1.0 hrs 1.8 kWh \$0.23
Radio	
	71 W 101.0 hrs 7.2 kWh \$0.94
Range (Oven)	
	2660 W 8.0 hrs 21.3 kWh \$2.77
Range (Self Cleaning Cycle)	
	2500 W 3.0 hrs 7.5 kWh \$0.98
Refrigerator/Freezer (Frostfree,17.5cu.ft.)	
	450 W 333.0 hrs 149.9 kWh \$19.49
Satellite Dish (Includes Receiver)	
	360 W 183.0 hrs 65.9 kWh \$8.57
Sump Pump (1/2 HP)	
	500 W 20.0 hrs 10.0 kWh \$1.30
Television (Color, Solid State)	
	200 W 183.0 hrs 36.6 kWh \$4.76
Toaster	
	1400 W 3.0 hrs 4.2 kWh \$0.55

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Vacuum Cleaner	1560 W 6.0 hrs 9.4 kWh \$1.22
VCR 45	45.0 W 6.0 hrs 2.0 kWh \$0.26
Waffle Iron	1200 W 4.0 hrs 4.8 kWh \$0.62
Washer (Automatic)	512 W 17.0 hrs 8.7 kWh \$1.13
Waterbed Heater (Queen Size)	375 W 256.0 hrs 96.0 kWh \$12.48
Water Heater (Quick Recovery)	4500 W 89.0 hrs 400.5 kWh \$52.00
Water Pump (1/2 HP)	460 W 41.0 hrs 18.9 kWh \$2.46

These figures are based on average use by a family of four at an electric rate of 13¢ per kilowatt hour.

Wattage for Home Appliances

AIR COOLER/HUMIDIFIER	65
BLENDER	300
CFL 10W	10
CFL 18W	18
CHRISTMAS LIGHT (100 bulbs w/o blinker)	56
CHRISTMAS LIGHT (100 bulbs with blinker)	16
CLOTHES DRYER-HEATER	1,600
CLOTHES DRYER-MOTOR	250
COFFEE MAKER	600

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COMPUTER W/ MONITOR	225
COMPUTER PRINTER	175
RECHARGEABLE LIGHTS/FANS	12
FLAT, IRON (Standard)	600
FLAT, IRON (DELUXE)	1,000
FLOOR POLISHER (Standard)	200
FLOOR POLISHER (DELUXE)	360
FLUOR.LAMP 48" (40W)	53
FLUOR.LAMP 21" (20W)	32
HAIR DRYER	320
INCANDESCENT BULB - 25W	25
INCANDESCENT BULB - 50W	50
INCANDESCENT BULB - 100W	100
SEWING MACHINE	75
VACUUM CLEANER	800
WASHING MACHINE	280
WATER HEATER	3,000
WATER DISPENSER (Heating)	550
WATER DISPENSER (Cooling)	90
WATERHEATER PORTABLE	1,600
FREEZER, CHEST-8 CU'	160
FREEZER, CHEST-10CU'	180
FREEZER, CHEST-12CU'	200
FREEZER, UPRIGHT-8CU'	150
REFRIGERATOR-6CU'	100
REFRIGERATOR-7CU'	120
REFRIGERATOR-8CU'	130
REFRIGERATOR-8CU'	140
REFRIGERATOR-10CU'	155
REFRIGERATOR-11CU'	170
REFRIGERATOR(FROST FREE)-7 CU'	220
REFRIGERATOR(FROST FREE)-8 CU'	250
REFRIGERATOR(FROST FREE)-9 CU'	280
REFRIGERATOR(FROST FREE)-10 CU'	300
REFRIGERATOR(FROST FREE)-11 CU'	320
REFRIGERATOR(FROS FREE)-19 CU'	800
BREAD TOASTER (2 WAY)	800
BREAD TOASTER (4 WAY)	1,500
Rice COOKER(3.0L) Commercial	1,000
Rice COOKER(1.8L) Commercial	650
Rice COOKER(1.0L) Commercial	450

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SL COOKER(3.0L) Commercial	1,000
SL COOKER(1.8L) Commercial	650
FOOD PROCESSOR	700
FRYER	680
GRILLER	1,200
MEAT CHOPPER	700
OSTERIZER	300
OVEN, Microwave	1,200
OVEN, PIZZA (SMALL)	2,000
OVEN, PIZZA (BIG)	3,600
OVEN, MINI	1,500
OVEN, TOASTER	750
POPCORN POPPER	1,200
RANGE (2-BURNER)	3,300
RANGE (4-BURNER)	8,200
STOVE (6" COIL PL.)	1,500
STOVE (8" COIL PL.)	2,200
TURBO BROILER	1,000
FAN, CEILING (2BLADE)	100
FAN, CEILING (3BLADE)	140
FAN, CEILING (4BLADE)	160
FAN, DESK (8")	30
FAN, DESK (10")	40
FAN, DESK (12")	50
FAN, DESK (14")	60
FAN, DESK (16")	80
FAN, DESK (18")	120
FAN, DESK (20")	175
FAN, BOX (BIG)	90
FAN, STAND (16")	80
FAN, EXHAUST	92
Plasma TV 32"	380
Playstation 1	10
Playstation 2	79
Projection TV 55" HDTV Monitor	180
Projection TV 43" Projection TV	180
Projection TV 20" Color TV	52
Projection TV 55" HDTV Monitor	180
Projection TV 43" Projection TV	180
Projection TV 20" Color TV	52
STEREO (SOLID STATE)	160

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STEREO (COMPONENT SYSTEM)	380
STEREO (MINI-COMPONENT)	145
TAPE RECORDER (CASSETTE)	50
Theater System 5 DVD/CD Home Entertainment System	150
Theater System DVD/SACD Digital Home	375
TV SET (COLOR 12")	65
TV SET (COLOR 14")	80
TV SET (COLOR 16")	85
TV SET (COLOR 18")	90
TV SET (COLOR 20")	110
TV SET (COLOR 26")	130
VHS PLAYER	45
XBOX	96

See also:

<http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1384&context=extensionhist>