

Approximate Cost to Operate Appliances Based on Composite Rate for Average Residential Consumer's Monthly Usage in FY 2004

Average Residential Kwh Usage 1252 Rate Per Kwh 0.06863

KITCHEN:

Appliance	Avg. Watts	Hrs/Mo	Kwh/Mo	Cost/Mo
Barbecue Grill	1350	6	8.1	\$0.56
Blender	390	3	1.2	\$0.08
Broiler	1440	6	8.6	\$0.59
Carving Knife	90	11	1	\$0.07
Coffee Maker	900	10	9	\$0.62
Deep Fat Fryer	1450	5	7.3	\$0.50
Dishwasher	1200	25	30	\$2.06
Energy to Heat Water for Dishwasher			115	\$7.89
Fry Pan	1200	13	15.6	\$1.07
Grill (Sandwich)	1160	3	3.5	\$0.24
Hot Plate	660	6	4	\$0.27
Microwave	1450	15	21.8	\$1.50
Mixer	125	8	1	\$0.07
Range	12500		100	\$6.86
Range (Self Cleaning, each use)	2260		5	\$0.34
Roaster	1330	13	17.3	\$1.19
Toaster	1150	3	3.5	\$0.24
Trash Compactor	1100	1	1.1	\$0.08
Waffle Iron	1120	2	2.2	\$0.15
Waste Disposer	450	7	3.2	\$0.22
Slow Cooker	200	24	4.8	\$0.33

FOOD PRESERVATION

Appliance	Avg. Watts	Hrs/Mo	Kwh/Mo	Cost/Mo
Refrigerator-Freezer (Frost Free)				
14 cu.ft.			160	\$10.98
18 cu.ft.			189	\$12.97
21 cu.ft.			197	\$13.52
Refrigerator-Freezer (Manual Defrost)				
14 cu.ft.			87	\$5.97
18 cu.ft.			114	\$7.82
20 cu.ft.			120	\$8.24
Freezer (Frost Free)				
12 cu.ft.			165	\$11.32
15 cu.ft.			180	\$12.35
20 cu.ft.			240	\$16.47
Freezer (Manual Defrost)				
12 cu.ft.			96	\$6.59
15 cu.ft.			120	\$8.24
20 cu.ft.			160	\$10.98

HOME ENTERTAINMENT

Appliance	Avg. Watts	Hrs/Mo	Kwh/Mo	Cost/Mo
Radio	70	100	7	\$0.48
Stereo	150	70	10.5	\$0.72
Television - Color				
19" Solid State	200	185	37	\$2.54
25" Solid State	250	185	46.2	\$3.17
Note: Instant-on TV's consume 75% of total wattage when not in use				
Personal Computer (6 hrs/day 5 days/wk)	80	120	9.6	\$0.66
Color Monitor	75	120	9	\$0.62
B&W Monitor	30	120	3.6	\$0.25
Dot Matrix Printer	35	120	4.2	\$0.29
Laser Printer	400	120	48	\$3.29
Modem	20	120	2.4	\$0.16
20 gal. Aquarium			50	\$3.43

WATER HEATING, LAUNDRY & CLEANING

Appliance	Avg. Watts	Hrs/Mo	Kwh/Mo	Cost/Mo
Water Heating (consumption based on # of people in household for personal use only. You must also add in hot water use for clothes washing and dishwashing.)				
# of People	Gallons/mo			
1	450	4500	202	\$13.86
2	900	4500	287	\$19.70
3	1350	4500	374	\$25.67
4	1800	4500	450	\$30.88
5	2250	4500	548	\$37.61
6	2700	4500	650	\$44.61
Clothes Dryer (5 loads/week)	5000	20	100	\$6.86
Clothes Washer (5 loads/week)	500	20	10	\$0.69
Energy to heat water for washer (5 loads/week)			135	\$9.27
Iron	1000	12	12	\$0.82
Sewing Machine	75	15	1.1	\$0.08
Vacuum Cleaner	630	6	3.8	\$0.26

HEATING AND COOLING

Appliance	Avg. Watts	Hrs/Mo	Kwh/Mo	Cost/Mo
Electric Heating (8 hours/day operating)				
Individual Baseboard Heaters				
4' Baseboard	1000	240	240	\$16.47
6' Baseboard	1500	240	360	\$24.71
8' Baseboard	2000	240	480	\$32.94
10' Baseboard	2500	240	600	\$41.18
Central Furnace & Blower				
10 KW	12,500	240	3000	\$205.89
15 KW	15,350	240	3684	\$252.83
20 KW	20,490	240	4918	\$337.52
25 KW	25,670	240	6160	\$422.76
Portable Space Heaters				
1000 Watts	1000	240	240	\$16.47

1500 Watts	1500	240	360	\$24.71
Air Source Heat Pumps				
Heating (12 hours/day operating)		360		
2 Ton		360	1160	\$79.61
3 Ton		360	1720	\$118.04
4 Ton		360	2300	\$157.85
5 Ton		360	2880	\$197.65
Cooling (8 hours/day operating)				
2 Ton		240	770	\$52.85
3 Ton		240	1150	\$78.92
4 Ton		240	1535	\$105.35
5 Ton		240	1920	\$131.77
Air Conditioner (window type, 8 hours/day operating)				
6000 btu/hr		240	190	\$13.04
10,000 btu/hr		240	320	\$21.96
12,000 btu/hr		240	380	\$26.08
14,000 btu/hr		240	450	\$30.88
16,000 btu/hr		240	510	\$35.00
18,000 btu/hr		240	575	\$39.46
Air Conditioner (central, 8 hours/day operating)				
1.5 Tons		240	540	\$37.06
2 Ton		240	720	\$49.41
2.5 Ton		240	900	\$61.77
3 Ton		240	1080	\$74.12
4 Ton		240	1440	\$98.83
Air Cleaner			18	\$1.24
Humidifier	120	120	14.4	\$0.99
Dehumidifier	260	120	31.2	\$2.14
Fans				
Attic			24	\$1.65
Ceiling			20	\$1.37
Window 20"			18	\$1.24
Furnace 1/3 hp			30	\$2.06
Water Bed Heater	400		120	\$8.24
Electric Blanket			24	\$1.65

HEALTH & BEAUTY:

Appliance	Avg. Watts	Hrs/Mo	Kwh/Mo	Cost/Mo
Blow Dryer	750	\$0.04	per hour of operation	
Hair Curler	400	\$0.02	per hour of operation	
Heat Lamp	250	\$0.01	per hour of operation	
Heat Pad	65	\$0.00	per hour of operation	
Shaver	15	\$0.00	per hour of operation	
Sun Lamp	280	\$0.02	per hour of operation	
Vaporizer	250	\$0.01	per hour of operation	

LIGHTING: (Adjust \$ amount for the number of fixtures in home)

Indoor (based on fixture being on 2 hrs/day)

1-60 watt bulb fixture			4	\$0.27
3-60 watt bulb fixture			11	\$0.75
1-100 watt bulb fixture			6	\$0.41
2-40 watt fluorescent bulb fixture			5	\$0.34

Outdoor (based on fixture being on 8 hours/day)

60 watt pole light			14	\$0.96
75 watt flood lamp			36	\$2.47
200 watt mercury vapor			65	\$4.46
120 watt mercury vapor			40	\$2.75
100 watt HP sodium			37	\$2.54
75 watt HP sodium			27	\$1.85

MISCELLANEOUS:

Water Pump

1/3 Hp	250	40	10	\$0.69
1.5 Hp	1120	40	44.8	\$3.07

Garage Door Opener

800			9	\$0.62
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Head Bolt Heaters (8 hrs/day)

500 watt	500	240	120	\$8.24
800 watt	800	240	192	\$13.18
1500 watt	1500	240	360	\$24.71

Heat Tape

8 watts/ft.	720		5.8/ft.	\$.24/ft.
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