

# ENERGY SENSE



How Much Energy Do Your  
Appliances Use?



*The amount of electricity you use is measured in and priced by kilowatt-hours (kWh). Each kWh of electricity is actually 1,000 watts of electricity used continuously for one hour.*

*The average monthly kWh usage in the following charts was developed by New York State utilities and approved by the New York State Public Service Commission. THE FIGURES ARE ONLY ESTIMATES. Your actual usage may vary depending on the size of your family, the age and size of a particular appliance, how often it is used, and the efficiency of the appliance.*

*You can calculate the approximate operating cost of any electrical appliance by checking its wattage and using these formulas:*

$$1. \frac{\text{Wattage} \times \text{Hours Used}}{1,000} = \text{kWh}$$

$$2. \text{kWh} \times \text{Cost per kWh} = \text{Operating Cost}$$

*Since the cost per kWh fluctuates from month to month, please check your most recent Central Hudson bill or the Central Hudson web site at [www.CentralHudson.com/residential/energyinfo.html](http://www.CentralHudson.com/residential/energyinfo.html) for the most current pricing information.*

## APPLIANCE USAGE CHART

<b>Home Entertainment</b>	Average Wattage	Estimated Monthly Hours of Use	Estimated Monthly kWh Usage
Cable TV Converter Box	25	180	5
Satellite Dish	100	180	18
DVD	60	120	7
VCR	38	50	2
Television - 13" (Black and White)	48	185	9
Television Cable Converter Box	35	720	25
Television/DVD/VCR Combination	120	120	14
Stereo System (tuner/receiver, speakers)	150	50	8
Portable Stereo (boom box)	30	50	2
Audio System (dual tape deck)	40	60	2
Alarm Clock or AM/FM Clock Radio	4	720	3
CD Player (5 disk changer)	20	60	1
Video Game without TV	13	200	3
Video Game with TV	200	30	6
Home Theater Receiver	100	180	18

*Television type, wattage and usage varies widely from household to household. Televisions also have what is called a "standby load." That is the electricity that is used even when the television is not turned on. Supplied on the next page is some information pertaining to how much a television uses hourly and its standby usage based on the average wattage given.*

<b>Televisions</b>	Average Wattage	kWh per Hour Use	Annual kWh Standby
>50" Plasma	475	0.704	88
40" - 49" Plasma	400	0.515	44
>50" LCD	215	0.260	18
40" - 49" LCD	150	0.197	18
> 50" DLP*	235	0.786	210
40" - 49" DLP*	200	0.660	175
30" - 36" Tube	200	0.384	70
25" - 27" Tube	150	0.266	44
19" - 20" Tube	125	0.241	44
42" - 50" Projection	320	120	38

\* DLP - Digital Light Processing

<b>Home Office</b>	Average Wattage	Estimated Monthly Hours of Use	Estimated Monthly kWh Usage
Home Computer (17" color monitor & speakers)	250	65	16
Laptop Computer	50	65	3
Printer - Ink/Bubble Jet (on standby)	3	120	0.4
Printer - Ink/Bubble Jet (in use)	180	15	12
Printer - Laser (on standby)	35	180	6
Printer - Laser (in use)	800	15	12
Modem - Cable or Phone	20	180	4
Scanner	45	3	0.1
Typewriter	35	8	0.3
Fax Machine - Thermal Paper	95	2	0.2
Fax machine - Laser	257	2	1
Fax Machine (standby)	5	720	4
Copier (desktop, 1000 copies per month)	800	38	30
Copier (on standby)	100	160	16
Answering Machine	20	720	14
Cordless Telephone	3	720	2

## **Lighting**

	Average Wattage	Estimated Monthly Hours of Use	Estimated Monthly kWh Usage
<b>Fluorescent</b>			
9 Watt	9	135	1
15 Watt	15	135	2
27 Watt	27	135	4
<b>Fluorescent</b>			
40 Watt	40	135	5
80 Watt	80	135	11
<b>Incandescent</b>			
7.5 Watt	7.5	135	1
40 Watt	40	135	5
60 Watt	60	135	8
75 Watt	75	135	10
100 Watt	700	135	14
<b>Outdoor/Security</b>			
Dusk to Dawn (HP Sodium)	100	300	30
Dusk to Dawn (MV)	175	300	53
Incandescent Floodlight	150	300	45
Mercury Vapor Floodlight	150	300	45
Security (HP Sodium)	70	300	21
Landscape lights (per bulb)	5	300	2
<b>Seasonal</b>			
Christmas Lights			
100 Large Bulbs	70	150	10
Christmas Lights			
100 Small Bulbs	50	150	8

<b><i>Health &amp; Beauty</i></b>	Average Wattage	Estimated Monthly Hours of Use	Estimated Monthly kWh Usage
Electric Curlers	5	5	2
Curling Iron	7	7	0.3
Electric Toothbrush	76	76	0.3
Germicidal Lamp	588	588	12
Hair Dryer - Hard Bonnet	4	4	5
Hair Dryer - Hand Held	3	3	4
Shaver	4	4	0.1
Sunlamp	6	6	2
Vaporizer	6	6	3
Water Bed	191	191	68
Oxygen Concentrator	240	240	96
Nebulizer	60	60	11
Kidney Dialysis	65	65	94
Specialty Adjustable Bed	240	240	20
Heating Pad	20	20	1
Cool Air Vaporizer	240	240	10
Warm Air Vaporizer	125	125	77

<b><i>Comfort Conditioning</i></b>	Average Wattage	Estimated Monthly Hours of Use	Estimated Monthly kWh Usage
Room A/C 5000-6000 BTU	684	163	111
Room A/C 7000-9000 BTU	942	163	154
Room A/C 10000-12000 BTU	1,378	163	225
Room A/C 18000 BTU	2,000	163	326
Central A/C 24000 BTU	2,400	190	456
Central A/C 36000 BTU	3,600	190	684
Central A/C 48000 BTU	4,800	190	912
Humidifier	176	237	42
Dehumidifier 25 pints	616	367	226
Dehumidifier 40 pints	632	362	229
Dehumidifier 50 pints	733	367	269

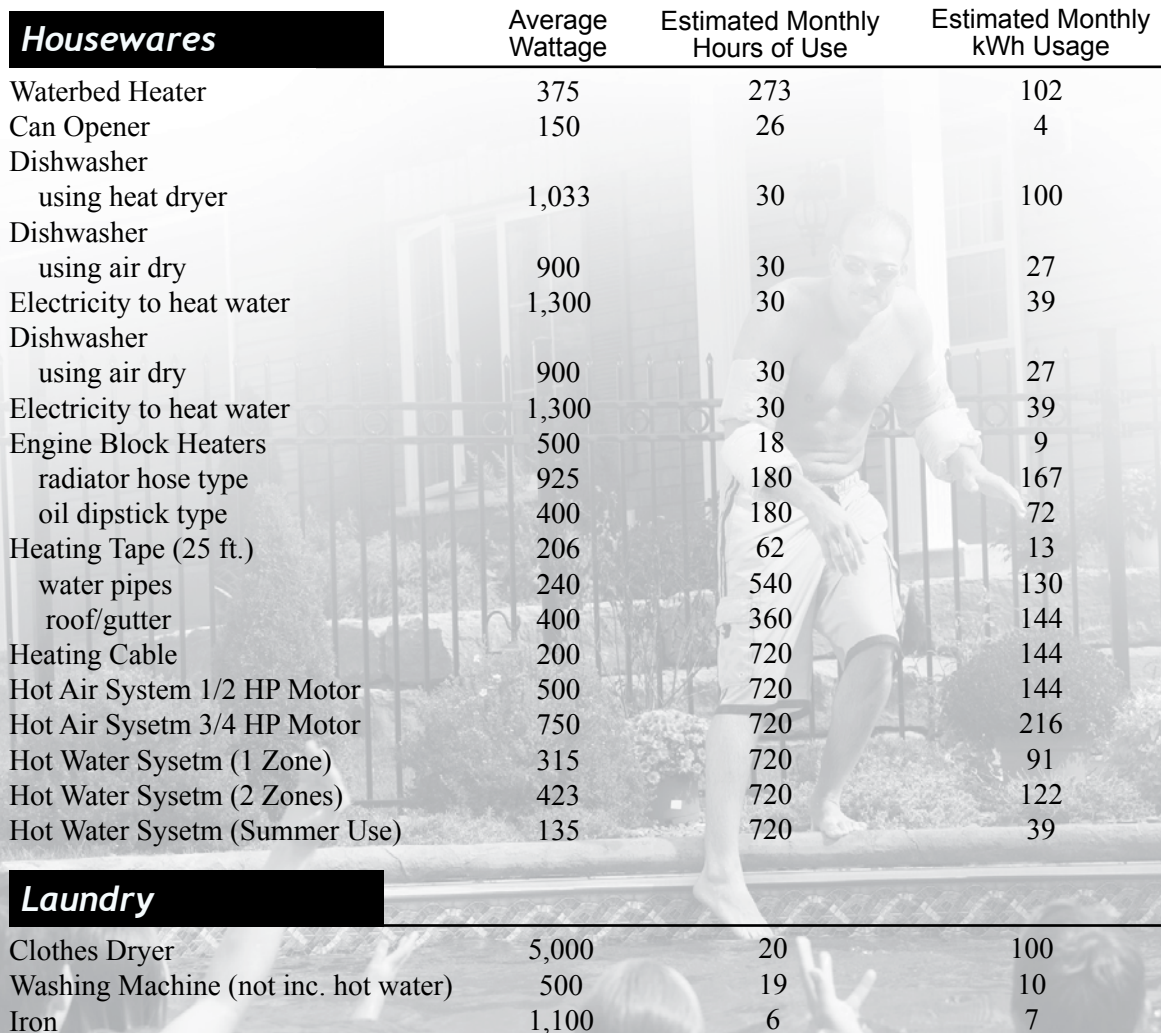
**Comfort Conditioning**

	Average Wattage	Estimated Monthly Hours of Use	Estimated Monthly kWh Usage
Fan - Attic	382	216	83
Fan - Ceiling	100	226	23
Fan - Window	175	221	39
Fan - Table/Box	100	120	12
Furnace Fan	438	238	104
Portable Heater	1,212	92	112
Oil Burner Motor	235	284	67
Heat System Circulator	154	253	39
Electric Water Heater (inc. hot water for laundry)	4,500	99	446
Air Cleaner	1,600	302	17
with furnace fan	400	180	72
portable	113	30	3

**Food Preparation**

Broiler	1,260	6	8
Carving Knife	100	15	2
Coffee Maker - Percolator	725	11	8
Coffee Maker - Drip	1,225	9	11
Deep Fryer	1,487	5	7
Food Processor	405	6	2
Fry Pan	1,274	7	9
Griddle/Waffle Iron/Sandwich Grill	1,200	5	6
Hot Plate	1,200	7	8
Tea Kettle	1,500	4	6
Mixer/Blender	142	2	0.3
Microwave Oven (1.25 cu. Ft.)	1,463	7	10
Popcorn Popper (hot air)	1,400	2	3
Popcorn Popper (oil)	575	2	1

<b><i>Food Preparation</i></b>	Average Wattage	Estimated Monthly Hours of Use	Estimated Monthly kWh Usage
Range with Oven	12,133	9	109
Range Self-Cleaning	12,200	8	98
Rotisserie	1,400	4	6
Slow Cooker	179	23	4
Toaster Oven	1,440	7	10
Toaster	1,149	3	3
<b><i>Food Preservation</i></b>			
Refrigerator 1.7 cu. ft.	126	720	30
Refrigerator 14 cu. ft.	226	720	65
Refrigerator 14 cu. ft. - Frostfree	383	720	91
Refrigerator 17 cu. ft. - Frostfree	463	720	110
Refrigerator 19 cu. ft. - Frostfree	509	720	121
Refrigerator 21 cu. ft. - Frostfree	572	720	136
Refrigerator - Freezer 21 cu. ft. - Side by Side	783	720	186
Refrigerator - Freezer 24 cu. ft. - Frostfree	653	720	155
Refrigerator - Freezer 25 cu. ft. - Side by Side	841	720	200
<b><i>Housewares</i></b>			
Clock	2	725	1
Sewing Machine	85	13	1
Vacuum Cleaner -Central	445	3	1
Vacuum Cleaner - Regular	800	10	8
Garbage Disposal	1440	6	9
Electric Blanket			
twin bed	75	120	9
king size bed	150	120	18



<b>Housewares</b>	Average Wattage	Estimated Monthly Hours of Use	Estimated Monthly kWh Usage
Waterbed Heater	375	273	102
Can Opener	150	26	4
Dishwasher using heat dryer	1,033	30	100
Dishwasher using air dry	900	30	27
Electricity to heat water	1,300	30	39
Dishwasher using air dry	900	30	27
Electricity to heat water	1,300	30	39
Engine Block Heaters radiator hose type	500	18	9
oil dipstick type	925	180	167
Heating Tape (25 ft.) water pipes	400	180	72
roof/gutter	206	62	13
Heating Cable	240	540	130
Hot Air System 1/2 HP Motor	400	360	144
Hot Air System 3/4 HP Motor	200	720	144
Hot Water System (1 Zone)	500	720	144
Hot Water System (2 Zones)	750	720	216
Hot Water System (Summer Use)	315	720	91
	423	720	122
	135	720	39
<b>Laundry</b>			
Clothes Dryer	5,000	20	100
Washing Machine (not inc. hot water)	500	19	10
Iron	1,100	6	7

<i>Miscellaneous</i>	Average Wattage	Estimated Monthly Hours of Use	Estimated Monthly kWh Usage
Bug Zapper	45	10	0.5
Electric Lawn Mower	3,000	8	24
Hedge Trimmer	300	3	1
Electric Fence	10	720	7
Security/Fire Alarm	20	710	14
DC Battery Charger	100	2	0.2
Floor Polisher	300	3	1
Circular Saw	1,100	1	1
Drill (1/4 inch)	325	1	0.3
Weed Trimmer	525	6	3
Ceramic Kiln	5,000	21	105
Soldering Gun	600	1	1
Septic Pump	1000	40	40
Sump Pump (1/3 HP)	395	10	4
Well Pump (3/4 HP)	575	49	28
Pool Filter (1/2 HP)	373	720	269
Pool Filter (3/4 HP)	560	540	302
Pool Filter (1 HP)	536	900	507
Aquarium with light and heater			
10 gallon	120	8	1
20 gallon	155	10	2
30 gallon	213	435	93
Portable Water Purification System	440	65	29

Natural gas is measured by both volume (hundred cubic feet, abbreviated CCF) and by heat content (British Thermal Units [BTU] per CCF). We bill you in CCF, a measurement of the volume of the natural gas that you receive.

To calculate the approximate operating costs of any natural gas appliance you must check its BTU rating and use these formulas:

$$1. \frac{\text{BTU}}{100,000} = \text{CCF}$$

$$2. \text{CCF} \times \text{Number of Hours Used} \times \text{Cost per CCF} = \text{Operating Cost}$$

Since the cost per CCF fluctuates from month to month, please check the Central Hudson web site at [www.CentralHudson.com](http://www.CentralHudson.com) for the most current pricing information.

<b>Gas Appliance Usage</b>	<b>Average BTU/Wattage</b>	<b>Estimated Monthly CCF</b>	<b>Estimated Annual CCF</b>
Heating System	120,000	92	1,104
Water Heater 30-50 Gal.	39,000	31	372
Water Heater 50-75 Gal.	55,000	66	792
Pool Heater	250,000	27	324
Spa/Hot Tub Heater	200,000	33	396
Range with Oven	47,000	4	48
Clothes Dryer	19,000	5	60
Outside Grill	36,000	4	48
Outside Gas Light	2,000	6	72

## **A NOTE ABOUT THE COST OF ENERGY**

Under Central Hudson's Customer Choice Plan, you have the opportunity to choose another electric and/or natural gas supplier; Central Hudson will continue to be your energy delivery company.

If you do not elect to choose another supplier, Central Hudson will purchase the energy on your behalf. Because Central Hudson no longer owns the power plants where electricity is produced, we cannot control the price our customers pay for the electricity to the extent we did in the past. We purchase electricity and natural gas on your behalf, and pass our supply cost along to you, without any markup or profit. While our delivery costs will remain stable, prices for the supply of electricity and natural gas will fluctuate, based on actual supply and demand.

You can call Central Hudson at

**(845) 452-2700**

**1-800-527-2714**

[www.CentralHudson.com](http://www.CentralHudson.com)



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