Energy Sense

How Much Energy Do Your Appliances Use?

Central Hudson
Gas & Electric Corporation

The amount of electricity you use is measured in, and priced by, kilowatt-hours (kWh). When you pay for a kilowatt-hour of electricity, you are paying for 1,000 watts of electricity used continuously for one hour. The cost figures used in this booklet are based on 11 cents per kilowatt-hour (kWh) of electricity unless otherwise noted. The figures represent average energy consumption. THE FIGURES ARE ONLY ESTIMATES. Actual energy consumption of your appliances and equipment will vary depending on the size of your family, the age and size of a particular appliance, how often it is used, and how the appliance was engineered. You can calculate the operating cost of any electrical appliance by checking its wattage and using these formulas:

1. Wattage x hours used/1,000 = kWh
2. kWh x cost per kWh = operating cost.

Food Preparation

Appliance	Wattage	Estimated Monthly Use	kWh/Mo.	Cost/Mo.
Baby Food Warmer	165	12	2	$ .22
Broiler	1200	7	8	.88
Can Opener	100	100	*	*
Carving Knife	100	30	*	*
Coffee Maker (percolator)	600	13	8	.88
Coffee Maker (urn)	1200	45	1	.11
Coffee Maker (drip)	1100	8	9	.99
Corn Popper (hot air)	1400	45	1	.11
Corn Popper (oil)	575	2	1	.11
Crepe Maker	750	1	1	.11
Deep Fryer (regular)	1500	5	8	.88
Deep Fryer (mini)	600	2	1	.11
Dishwasher				
With drying unit on	1200	30	100	11.00
With drying unit off	900	30	30	3.30
Fondue Chafing dish	800	1	1	.11
Food Processor	480	20	*	*
Frying Pan	1200	7	8	.88
Garbage Disposal	445	1	*	*
Grill (sandwich)	1200	2.5	3	.33
Hamburger Maker	750	3	2	.22
Hot Beverage Maker	1000	3	3	.33
Hot Plate	1200	7	8	.88
Kettle	1500	4	6	.66
Microwave Oven	1450	10	15	1.65
Mixer	150	2	*	*
Range hood w/ light and fan	420	10	4	.44
Range (electric)				
With conventional oven	12000	5	58	6.38
With self-cleaning oven	12000	5	60	6.60
Roaster	1500	3	5	.55
Rotisserie	1400	4	6	.66
Slow Cooker (crock-pot)	200	60	12	1.32
Toaster	1100	3	3	.33
Toaster-oven	1500	2	3	.33
Trash Compactor	400	10	4	.44
Waffle Iron	1200	2	2	.22
Wok		1000	2	2 .22

Appliance	Wattage	Estimated Monthly Use	kWh/Mo.	Cost/Mo.
FOOD PRESERVATION				
Freezer				
Manual Defrost, 16 cu. ft.	340	daily	100	$11.00
Frost-free, 16 cu. ft..	440	daily	150	16.50
Refrigerator/Freezer				
Manual Defrost, 12.5 cu. ft..	235	daily	60	6.60
Frost-free, 17.5 cu. ft..	450	daily	150	16.50
Side-by-side, 18-21 cu. ft..	550	daily	220	24.20
HOME ENTERTAINMENT				
Radio	70	100	7	$ .77
Color Television	300	100	30	3.30
Stereo system (CD player, tuner, and receiver)	80	125	10	1.10
Videocassette Recorder/Player	30	33	1	.11
Video Game and TV	200	60	12	1.32
HEALTH AND BEAUTY				
Air Cleaner	50	360	18	$1.98
Curling Iron	40	10	*	*
Hair Dryer (hand-held)	1200	3	4	.44
Hair Dryer (hard bonnet)	900	5	4	.55
Hair Setter	350	3	1	.11
Heat Lamp	250	4	1	.11
Heating Pad	60	6	*	*
Lighted Mirror (incandescent)	50	10	*	*
Lighted Mirror (fluorescent)	20	10	*	*
Shaver	15	5	*	*
Sunlamp	300	8	2	.22
Toothbrush	10	2	*	*
Vaporizer	480	10	5	.55
LAUNDRY				
Electric Clothes Dryer	5000	25 loads	85	$ 9.35
Electric Water Heater (With hot water used for laundry as well)	4500	110	495	54.45
Iron	1100	5	6	.66
Washing Machine not including hot water	375	25 loads	10	1.10

Appliance	Wattage	Estimated Monthly Use	kWh/Mo.	Cost/Mo.
LIGHTING				
Fluorescent (Bulbs, tubes, compact globes, circles, etc). (On 4 hours per day)				
9 watt	9	120	1	$.11
13 watt	13	120	2	.22
22 watt	22	120	3	.33
32 watt	32	120	4	.44
40 watt	40	120	5	.55
Standard Incandescent Bulbs (on 4 hours per day)				
7.5 watt (holiday lights, chandeliers, etc.)	7.5	120	1	.11
40 watt	40	120	5	.55
60 watt	60	120	7	.77
75 watt	75	120	9	.99
100 watt	100	120	12	1.32
150 watt	150	120	18	1.98
Outdoor Security Light				
(High-pressure sodium bulb, dusk-to-dawn) (varies w/season)	100 approx.	400	40	4.40
(Mercury vapor, dusk-to-dawn) (varies w/season)	175 approx.	400	70	7.70
MISCELLANEOUS				
Alarm (security/fire)	20	700	14	$1.54
Answering Machine	20	250	5	.55
Aquarium				
(30-gallon w/pump, light and heater)	175	150	26	2.86
Circular Saw	1000	1	1	.11
Clock	2	continuous	2	.22
Drill (1/4 inch)	250	30 minutes	*	*
Floor Polisher	300	3	1	.11
Garage Door Opener	350	30 operations	1	.11
Kiln - Ceramic	5000	40	200	22.00
Personal Computer (w/monitor)	200	30	6	.66
Sewing Machine	75	13	1	.11
Spa				
pump	1000	10	10	1.10
air blower	1000	10	10	1.10
heater	6000	40	240	26.40
Sump Pump	85	2	*	*
Typewriter	30	10	*	*
Vacuum Cleaner	650	6	4	.44
Water Bed Heater	375	306	115	12.65
Well or Water Pump	335	60	20	2.20

SEASONAL

Appliance	Wattage	Estimated Monthly Use	kWh/Mo.	Cost/Mo.
Air Conditioning 75% running time for 7 hrs./day)				
Central-24,000 BTU	4494	158	708	77.88
Room-5,000 BTU (As needed)	700	158	111	12.21
Room-7,000 BTU (As needed)	933	158	147	16.17
Room-10,000 BTU (As needed)	1400	158	221	24.31
Auto Engine Heater				
dipstick type	300	300	90	$9.90
radiator hose type	850	300	255	28.05
Christmas Lights				
64 traditional bulbs	320	42	13	1.48
50 miniature bulbs	18	3 hrs./day	1	.11
Dehumidifier (12 hours/day)	625	360	225	24.75
Electric blanket	170	105	18	1.98
Fan (attic)	375	67	25	2.75
Fan (ceiling)	75	150	11	1.21
Fan (table)	100	40	4	.44
Fan (window)	200	70	14	1.54
Heat Tape				
water pipes (30ft.)	240	540	130	14.30
Roof/gutter (50ft.)	400	360	144	15.84
Hedge Clippers	300	3	1	.11
Humidifier	177	240	43	4.73
Lawn Mower	3000	5	15	1.65
Pool Filter-1 Horsepower	1000	360	360	39.60
Portable Electric Heater				
Insulated Room (10 hrs/day)	1350	30	405	44.55
Uninsulated Room (18 hrs/day)	1350	540	729	80.19
Basement Heater (10 hrs/day)	5000	300	1500	165.00
Weed Trimmer	525	6	3	.33
Whole House Heating				
warm air furnace motor	375	275	103	11.33
hot water circulating pump	200	375	75	8.25
oil burner motor	260	350	91	10.01

* Uses less than 1 kWh or $.11 per month.

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 you receive. Cost figures used for the natural gas appliances listed are based on 85 cents per CCF of natural gas. To calculate energy use of natural gas appliances, use the following formulas:

1. btu/100,000 = CCF
2. CCF x number of hours used x cost per CCF = operating cost.

Natural Gas Appliances

Appliance	Wattage	Estimated Monthly Use	kWh/Mo.	Cost/Mo.
Clothes Dryer	18000	25 loads	5	4.25
Furnace Pilot Light	700	continuous	5	4.25
Gas Fireplace Logs	40000	20	8	6.80
BBQ Grill	36000	8	5	4.25
Range	55000	5	8	6.80
Water Heater	36000	1440 gal	30	25.50

A Note About The Cost of Energy

The amount of 11 cents per kWh of electricity and 85 cents per CCF of natural gas, used in this pamphlet to calculate the estimated monthly costs, reflects an industry average for both the delivery and supply of energy charges. 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 delivery company.

If you do not elect 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 electricity to the extent we did in the past. While our delivery costs will remain stable, prices for the supply of electricity and natural gas will fluctuate, based on actual supply and demand.