

# Morrisville Water & Light

## Electric Appliance Consumption

### How much electricity do your appliances use?

Refrigeration, electric water heaters, and lighting eat up more than half of the energy dollars of the average Morrisville Water and Light residential customer. However, you may be surprised by the amount of electricity that your other appliances use. The chart's figures are based upon modern, efficient appliance models. Your costs may vary depending on the age, size, and model of the appliance; its location; and how it is used. Older models may use twice as much electricity!

We've highlighted the average home's biggest electricity users on this chart. Please note that the average hours used per month are based on a family of four.

Appliance	Average Wattage	Average Hrs. Used per month	Average Kwh per month	Average cost per month
Air cleaner (electrostatic)	50	500	25	\$3.02
Air conditioner				
Central	5000	120	600	72.35
Room (5000 BTU)	700	120	84	10.13
Room (8000 BTU)	1100	120	132	15.68
Answering Machine	185	16	3	.36
Aquarium (filter, light, and heater)	95	360	34	4.10
Blender	400	2	1	.13
Bug zapper	40	300	12	1.45
Car engine heater	500	200	100	12.06
	1000	200	200	24.12
Clock	2	750	2	.25
Copier	100	10	1	.13
Clothes dryer(add 20 Kwh per added person)				
Electric (3 people )	5000	23	115	13.87
Electric (4 people)	5000	27	135	16.28
Gas dryer (electric use)	325	31	9	1.09
Coffeemaker, drip Brew cycle	850	8	7	.85
Warm cycle	70	50	4	.49
Computer components (CPU)	60	120	7	.85
Dot matrix printer Idle	25	60	2	.25
Printing	55	30	2	.25
Laser Printer Idle	25	60	2	.25
Printing	650	30	20	2.42

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Modem	20	120	2	.25
Monitor (monochrome)	30	120	4	.49
Monitor (color)	80	120	10	1.21
Corn popper (Hot air)	1400	1	1	.13
Oil	575	1	1	.13
Curling iron	40	35	1	.13
Dehumidifier (see footnote 1)	632	315	198	23.88
Dishwasher (see Footnote 2) Wash cycle (motor)	200	25	5	.61
Deep Fryer	1475	4	6	.73
Electric Blanket	175	84	15	1.81
Crock Pot	200	10	2	.25

1. Most dehumidifiers are used during the summer in basements. Eliminate or reduce the need for a dehumidifier by keeping basement windows closed, reducing air leakage and covering any bare earth with thick plastic sheeting.

2. On the average, dishwashers use about 56-kilowatt hours per month for hot water (about 6.782). It is usually more efficient to do full loads in a dishwasher than to wash dishes by hand. Actual savings depends on your dishwashing habits and the type of machine you use. If you have a dishwasher, use the energy saving; no-heat drying option if available.

Appliance	Average Wattage	Average Hrs. Used per month	Average Kwh per month	Average Cost per month
Facsimile machine	185	160	30	\$3.62
Fan (Attic)	370	176	65	7.84
Ceiling paddle	80	78	6	.73
Desktop	85	71	6	.73
Window	200	75	15	1.81
Food processor	400	2	1	.13
Freezer (15 cu. Ft.) Manual defrost	400	175	70	8.44
Frost-free	500	260	130	15.68
Griddle	1200	3	4	.49
Hair curlers	350	3	1	.13
Hair dyer, hand held	1000	3	3	.37
Heat lamp, infrared	250	6	2	.49
Heat tape (6.5 watts per ft) 10 feet	65	720	47	5.67
Heating system (Oil burner motor)	265	217	58	7.00
Electric baseboard (6 ft) (see footnote 3 and 4) (250 watts per ft)	1500	240	360	43.41
Furnace fan	310	267	83	10.01
Hot water circulator	145	500	73	8.81
Hot plate	1250	4	5	.61

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Humidifier	175	360	63	7.60
Iron, hand	1100	4	4	.49
Lighting (incandescent)	100	100	10	1.21
Compact Fluorescent 25 watt (equals 100-watt incandescent)				
Fluorescent (2) lamps 4 ft w/ ballast	27	100	3	.37
High pressure sodium w/ ballast	88	100	9	1.09
Mercury vapor w/ 20 watt ballast	130	90	11	1.33
Outdoor flood	120	90	12	1.45
Outdoor halogen flood	120	90	11	1.33
	90	90	8	.97
Microwave oven	1475	14	21	2.54
Mixer, hand	80	1	1	.13
Motor (745 watts/ horsepower, power tools, compressors, etc.)				
		5	4	.49
Oven Self cleaner (1-3 hr,cycle)	2660	12	32	3.86
	2500	3	8	.97
Radio/ tape player	70	99	7	.85
Range (small burner on high)	1300	8	10	1.21
(large burner on high)	2400	8	19	2.30
Refrigerator Pre- 1990 models				
Apartment size	250	120	30	3.62
Frost-free (apartment size)	350	175	60	7.24
*W/ freezer (14 cu. Ft.)	350	228	80	9.65
*W/ freezer, frost free (14 cu. Ft.)	520	230	120	14.47
*W/ freezer, frost free (16-18 cu. Ft.)	625	240	150	18.09
*W/ freezer, side- by-side (20 cu. Ft.)	700	285	200	24.12

3. Electric heat and electric water tanks can be the largest users of electricity in the home. The amount of electricity that you use depends on how often you use these appliances. If you have electric heat or an electric water tank, please call **Energy Efficiency Utility 1 (888) 921-5990** for program information that could help you save money on your electric bills. These figures do not include hot water used for washing clothes; hot water used for washing dishes (by hand or machine) is included.

4. Water heating accounts for about 90% of the energy used by a washing machine. These figures are based on a warm wash and cold rinse cycle. Use the cold cycle as much as possible.

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Appliance	Average Wattage	Average Hrs used per month	Average Kwh per month	Average cost per month
Refrigerator Post- 1990 models				
Apartment size	250	120	16	\$1.93
Frost free (apartment size)	350	175	29	3.50
*W/ freezer (14 cu. Ft.)	350	228	31	3.74
*W/ freezer, frost free (14 cu. Ft.)	520	230	50	6.03
*W/ freezer, frost free (16-18 cu. Ft.)	625	240	68	8.20
*W/ freezer, side-by-side (20 cu. Ft.)	700	285	112	13.51
Sewing machine	75	12	1	.13
Shaver	15	3	1	.13
Stereo	100	86	9	1.06
Sump pump	300	10	3	.37
Swimming pool, filter (if ran 24 hours a day)	750	720	540	65.11
Television, Black and white	55	150	8	.97
Color	200	150	30	3.62
Toaster	1150	3	3	.362
Toaster oven	1500	8	12	1.45
Trash compactor	400	15	6	.73
Typewriter ( home size)	30	10	1	.13
Vacuum	650	8	12	1.45
Vaporizer cold air	40	30	1	.121
Warm air	750	30	23	2.78
VCR	40	30	1	.13
Washing machine ( Motor use)	510	15	8	.97
Including warm water		15	41	4.95
Water bed heater (see foot note 5)	375	375	141	17.00
Water Heater (family of four	4500	83	374	45.10
WR – 10 jacket ( family of four)	4500	70	315	37.98

5. Keeping a waterbed covered with a comforter can save more than 30%. Insulating the side of most beds can save about 10%.

## How to Use Your Appliance Chart

This chart lists commonly used household appliances. To figure out how much it costs to use them, look in the left- hand column and **mark the appliances that your family uses most often.** For example, let's say you want to know how much electricity your electric dryer uses. Find that appliance on the chart.

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Appliance	Average wattage	Average Hrs. used per month	Average Kwh per month	Average cost per month
Clothes dryer				
3 people	5000	23	115	\$13.87
4 people	5000	27	135	16.28

A. To learn how much electricity this appliance uses, look up its **average wattage**(in column 2). The chart says that an electric clothes dryer uses 5000 watts. Look for the actual wattage on your dryer(usually on a small plate), its manual or packaging. If only the amperage (amp) and voltage (volts) are listed, multiply these two numbers together to determine the wattage.

$$\text{Amperage} \times \text{Voltage} = \text{Wattage}$$

B. Multiply the wattage by the estimated number of hours that your family uses the dryer during the month. The "**average hours used**" column on the chart shows the typical monthly use for that appliance. A clothes dryer is used about 23 hours per month on the average. Your usage may be different.

$$5,000 \times 23 = 115,000 \text{ watts-hours per month}$$

C. Divide by 1,000. This gives you the electricity used by your clothes dryer in kilowatt-hours (Kwh) per month. Write that figure in the "**Kwh per month**"column of the chart. Whenever possible, we've rounded our numbers up to the nearest whole number.

$$115,000 \div 1000 = 115 \text{ Kwh per month}$$

D. To find out how much this is in dollars and cents each month, multiply the Kwh by the current cost per kilowatt-hour. For Appliances that you use:

Multiply by **.12057¢** if you use around 500 to 1000 Kwh per month

$$115 \times .12057¢ = \$13.87 \text{ per month}$$
 Write that figure in the "**cost per month**"column of the chart.

Note: *The figures don't include customer service charges, taxes or other fees.* **Follow these steps for all of your electric appliances to find out where your energy dollars are going!**