

Electric Usage Guide

About This Guide

This guide estimates the annual kilowatt-hour (kWh) usage and energy costs of common household products. Hours in use are based on a typical four-person household. Your hours of use may vary. Annual kWh may vary depending upon model, age, and use. Annual cost is based on an average of 12 cents per kWh. Appliances with annual operating costs of \$100 or more are bolded. To estimate the annual cost of operating an appliance not listed, multiply the annual kWh by your utility's kWh rate or by the average rate of 12 cents.

Example Calculation

Annual Electric Cost for a 27" LCD Flat Screen Television

$$\begin{array}{|c|} \hline \mathbf{300} \\ \hline \text{kWh used annually} \end{array} \times \begin{array}{|c|} \hline \mathbf{\$0.12} \\ \hline \text{Average kWh rate} \end{array} = \begin{array}{|c|} \hline \mathbf{\$36} \\ \hline \text{Annual Cost} \end{array}$$

Appliance / Product	Monthly Average			Annual Average	
	Hours in Use	kWh Used	Months Used	Annual kWh	Annual Cost
Air Conditioner - Central	125	932	4	3728	\$447
Air Conditioner - 8,000 BTU - Room/Window	100	317	4	1268	\$152
Clothes Dryer - Electric	20	75	12	900	\$108
Clothes Dryer - Gas (does not include gas use)	23	9	12	108	\$13
Clothes Washer (does not include warm/hot water use)	30	9	12	108	\$13
Coffee Maker (residential)	30	5	12	60	\$7
Computer - Desktop with Monitor	90	11	12	132	\$16
Computer - Laptop	90	3	12	36	\$4
Dehumidifier	136	200	8	1,600	\$192
Dishwasher - Heat Dry	22	28	12	336	\$40
Dishwasher - Air Dry	16	8	12	96	\$12
DVD Player	60	2	12	24	\$3
Electric Heat - Baseboard 10 feet	180	225	5	1,125	\$135
Electric Heat - Portable/Plug-in	105	155	6	930	\$112
Fan - Attic	64	24	3	72	\$9
Fan - Bath	15	1	12	12	\$1
Fan - Ceiling (does not include lights)	150	23	6	138	\$17
Fan - Table/Box/Floor	71	11	3	33	\$4
Freezer - Chest, 16.5 - 18.9 cu. ft., 1990-1992	720	69	12	828	\$99
Freezer - Chest, 16.5 - 18.9 cu. ft., 1993-2000	720	47	12	564	\$68
Freezer - Chest, 16.5 - 18.9 cu. ft., 2001-2008	720	38	12	456	\$55
Freezer - Chest, 19.0 - 21.4 cu. ft., 1990-1992	720	69	12	828	\$99
Freezer - Chest, 19.0 - 21.4 cu. ft., 1993-2000	720	52	12	624	\$75
Freezer - Chest, 19.0 - 21.4 cu. ft., 2001-2008	720	42	12	504	\$60
Freezer (New Energy Star) - Chest, 19.0 - 21.4 cu. ft.	720	36	12	432	\$52
Freezer - Upright, 16.5 - 18.9 cu. ft., 1990-1992	720	114	12	1,368	\$164

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	Monthly Average			Annual Average	
Appliance / Product	Hours in Use	kWh Used	Months Used	Annual kWh	Annual Cost
Freezer - Upright, 16.5 - 18.9 cu. ft., 1993-2000	720	81	12	972	\$117
Freezer - Upright, 16.5 - 18.9 cu. ft., 2001-2008	720	61	12	732	\$88
Freezer - Upright, 19.0 - 21.4 cu. ft., 1990-1992	720	121	12	1,452	\$174
Freezer - Upright, 19.0 - 21.4 cu. ft., 1993-2000	720	88	12	1,056	\$127
Freezer - Upright, 19.0 - 21.4 cu. ft., 2001-2008	720	66	12	792	\$95
Freezer (New Energy Star) - Upright, 19.0 - 21.4 cu. ft.	720	39	12	468	\$56
Game Console	30	5	12	60	\$7
Heating System - Boiler Hot Water Circulators (does not include fuel use)	178	49	6	294	\$35
Heating System - Furnace Fan Blower (does not include fuel use)	178	83	6	498	\$60
Hot Tub - Indoor (Pump and Heater)	70	196	12	2,352	\$282
Hot Tub - Outdoor (Pump and Heater)	128	298	12	3,576	\$429
Lighting - Incandescent, 100-watts	90	9	12	108	\$13
Lighting - CFL, 25-watts	90	2	12	27	\$3
Lighting - LED, 10-watts	110	1	12	13	\$2
Microwave Oven	9	8	12	96	\$12
Oven Broiler - Electric	4	6	12	72	\$9
Oven - Electric	8	21	12	252	\$30
Oxygen Concentrator	240	72	12	864	\$104
Pellet Stove (does not include wood pellets)	720	100	7	700	\$84
Printer - Ink Jet	6	2	12	24	\$3
Printer - Laser - Color	6	38	12	456	\$55
Range Top - Electric (large cooking surface unit)	30	71	12	852	\$102
Range Top - Electric (small cooking surface unit)	8	10	12	120	\$14
Refrigerator, 16.5 - 18.9 cu. ft., 1990-1992	720	99	12	1,188	\$143
Refrigerator, 16.5 - 18.9 cu. ft., 1993-2000	720	66	12	792	\$95
Refrigerator, 16.5 - 18.9 cu. ft., 2001-2008	720	41	12	492	\$59
Refrigerator, 19.0 - 21.4 cu. ft., 1990-1992	720	106	12	1,272	\$153
Refrigerator, 19.0 - 21.4 cu. ft., 1993-2000	720	70	12	840	\$101
Refrigerator, 19.0 - 21.4 cu. ft., 2001-2008	720	44	12	528	\$63
Refrigerator (New ENERGY STAR), 19.0 - 21.4 cu. ft.	720	28	12	336	\$40
Refrigerator - Bottom Freezer, 16.5 - 18.9 cu. ft., 1990-1992	720	109	12	1,308	\$157
Refrigerator - Bottom Freezer, 16.5 - 18.9 cu. ft., 1993-2000	720	68	12	816	\$98
Refrigerator - Bottom Freezer, 16.5 - 18.9 cu. ft., 2001-2008	720	48	12	576	\$69
Refrigerator - Bottom Freezer, 19.0 - 21.4 cu. ft., 1990-1992	720	116	12	1,392	\$167
Refrigerator - Bottom Freezer, 19.0 - 21.4 cu. ft., 1993-2000	720	72	12	864	\$104
Refrigerator - Bottom Freezer, 19.0 - 21.4 cu. ft., 2001-2008	720	49	12	588	\$71
Refrigerator (New ENERGY STAR) Bottom Freezer, 19.0 - 21.4 cu. ft.	720	37	12	444	\$53
Refrigerator - Side-by-Side, 16.5 - 18.9 cu. ft., 1990-1992	720	127	12	1,524	\$183
Refrigerator - Side-by-Side, 16.5 - 18.9 cu. ft., 1993-2000	720	85	12	1,020	\$122
Refrigerator - Side-by-Side, 16.5 - 18.9 cu. ft., 2001-2008	720	55	12	660	\$79
Refrigerator - Side-by-Side, 19.0 - 21.4 cu. ft., 1990-1992	720	135	12	1,620	\$194
Refrigerator - Side-by-Side, 19.0 - 21.4 cu. ft., 1993-2000	720	90	12	1,080	\$130
Refrigerator - Side-by-Side, 19.0 - 21.4 cu. ft., 2001-2008	720	57	12	684	\$82
Refrigerator (New ENERGY STAR) Side-by-Side, 19.0 - 21.4 cu. ft.	720	32	12	384	\$46

	Monthly Average			Annual Average	
Appliance / Product	Hours in Use	kWh Used	Months Used	Annual kWh	Annual Cost
Satellite Dish/Cable Receiver	720	21	12	252	\$30
Sauna	4	28	12	336	\$40
Swimming Pool - Filter Pump, 1 HP	360	270	4	1,080	\$130
Television - 10" - 35" Average Non-ENERGY STAR TV	210	10	12	120	\$14
Television - 15" - 27" Standard	210	25	12	300	\$36
Television - 27" LCD Flat Screen	210	25	12	300	\$36
Television - 32" - 60" LCD Flat Screen	210	32	12	384	\$46
Television - 32" - 60" Plasma Flat Screen	210	68	12	816	\$98
Television - 36" - 49" Average Non-ENERGY STAR TV	210	18	12	216	\$26
Television - 50"+ Average Non-ENERGY STAR TV	210	21	12	252	\$30
Waterbed	256	75	12	900	\$108
Water Cooler/Heater	720	61	12	732	\$88
Water Heater - Electric	cycles	396	12	4,752	\$570
Water Heater - Heat Pump	720	134	12	1,608	\$193