



ESTIMATING YOUR ELECTRIC BILL

Typical Appliance	Watts	\$/Use (12¢/kWh)	x Your Estimated Use	\$/Month
KITCHEN				
refrigerators				
frost free (14-16 cu ft)	473	\$10.22 /month	(180 hours/month) = \$ _____ /month	
frost free (17-18 cu ft)	503	\$10.86 /month	(180 hours/month) = \$ _____ /month	
frost free (19-22 cu ft)	557	\$12.03 /month	(180 hours/month) = \$ _____ /month	
frost free (over 22 cu ft)	606	\$13.09 /month	(180 hours/month) = \$ _____ /month	
freezers (15-21 cu ft)			= \$ _____ /month	
manual defrost	347	\$9.99 /month	(240 hours/month) = \$ _____ /month	
frost free	533	\$15.35 /month	(240 hours/month) = \$ _____ /month	
dishwasher (hot water extra)	1200	\$0.14 /load	x _____ loads/month = \$ _____ /month	
microwave	1500	\$0.02 /use	x _____ uses/month = \$ _____ /month	
coffee maker: brew cycle	800	\$0.02 /brew	x _____ brews/month = \$ _____ /month	
coffee maker: keep warm	70	\$0.01 /hour	x _____ hours/month = \$ _____ /month	
reg. deep fryer	1800	\$0.22 /hour	x _____ hours/month = \$ _____ /month	
mini deep fryer	800	\$0.10 /hour	x _____ hours/month = \$ _____ /month	
crock pot/"slow" cooker	200	\$0.02 /hour	x _____ hours/month = \$ _____ /month	
range top or frypan	1200	\$0.14 /meal	x _____ meals/month = \$ _____ /month	
oven: baking	3500	\$0.42 /hour	x _____ meals/month = \$ _____ /month	
oven: self cleaning feature	6000	\$1.44 /clean	x _____ cleans/month = \$ _____ /month	
toaster	1100	\$0.03 /use	x _____ uses/month = \$ _____ /month	
toaster-oven: oven	1500	\$0.04 /use	x _____ uses/month = \$ _____ /month	
toaster-oven: broiling	3100	\$0.07 /use	x _____ uses/month = \$ _____ /month	
LAUNDRY				
dryer	4800	\$0.43 /load	x _____ loads/month = \$ _____ /month	
iron	1200	\$0.14 /hour	x _____ uses/month = \$ _____ /month	
washing machine (cold H2O)	500	\$0.06 /load	x _____ loads/month = \$ _____ /month	
ENTERTAINMENT				
computer & monitor	200	\$0.02 /hour	x _____ hours/month = \$ _____ /month	
DVD / VCR	60	\$0.01 /hour	x _____ hours/month = \$ _____ /month	
T.V. (35" Standard)	210	\$0.03 /hour	x _____ hours/month = \$ _____ /month	
T.V. (42" Plasma)	290	\$0.03 /hour	x _____ hours/month = \$ _____ /month	
T.V. (60" Plasma)	450	\$0.05 /hour	x _____ hours/month = \$ _____ /month	
T.V. (40" LCD)	180	\$0.02 /hour	x _____ hours/month = \$ _____ /month	
Older Gaming Systems	20-70	Look at the power requirements on back of unit		/month
Newer Gaming Systems	145-400	Look at the power requirements on back of unit		/month
PERSONAL				
hand-held hair dryer	1500	\$0.05 /use	x _____ uses/month = \$ _____ /month	
heating pad	60	\$0.01 /use	x _____ uses/month = \$ _____ /month	
LIGHTING				
60 watt incandescent bulb	60	\$1.30 /month	(180 hours or 6 hours/day) = \$ _____ /month	
15 watt compact fluorescent	15	\$0.32 /month	(180 hours or 6 hours/day) = \$ _____ /month	
9.5 watt LED bulb	9.5	\$0.21 /month	(180 hours or 6 hours/day) = \$ _____ /month	
outdoor flood light	75	\$0.01 /hour	x _____ hours/month = \$ _____ /month	
OTHER				
hot tub	1200	\$0.14 /hour	x _____ hours/month = \$ _____ /month	
water pump ½ h.p.	547	\$0.07 /hour	x _____ hours/month = \$ _____ /month	
@ 75% Eff 1 h.p.	1094	\$0.13 /hour	x _____ hours/month = \$ _____ /month	
1 ½ h.p.	1641	\$0.20 /hour	x _____ hours/month = \$ _____ /month	
2 h.p.	2188	\$0.26 /hour	x _____ hours/month = \$ _____ /month	
WINTER				
electric blanket	150	\$0.14 /night	x _____ nights/month = \$ _____ /month	
space heater	1500	\$0.18 /hour	x _____ hours/month = \$ _____ /month	
SUMMER				
ceiling fan (medium speed)	75	\$0.01 /hour	x _____ hours/month = \$ _____ /month	
YOUR ESTIMATED TYPICAL APPLIANCE USE SUB-TOTAL:				\$ _____ /month

Water Heating

Assumptions: 20 Gallons of water per person per day heated to 125°F; \$10.00/Month/Person @ \$0.12/kWh.
40 kWh/month heat loss from electric water heater or \$4.80/month

WATER HEATING SUBTOTAL: \$10.00/month/person x _____ people + \$4.80/month = \$ _____/month

YOUR ESTIMATED BASE BILL (appliance use + water heating sub-totals): \$ _____

Central Air Conditioning Systems

Assumptions Design temperatures = 93°F outside; 78°F inside.
Operates 2,640 hours for moderate season. Costs \$0.12/kWh.

YEARLY COSTS FOR SEASONAL ENERGY EFFICIENCY RATING (SEER)

SIZE		10	11	12	13	14	15	16	17	18
6,000 BTU's	(0.5-ton)	\$190	\$173	\$158	\$146	\$136	\$127	\$119	\$112	\$106
12,000 BTU's	(1.0-ton)	\$380	\$346	\$317	\$292	\$272	\$253	\$238	\$224	\$211
18,000 BTU's	(1.5-ton)	\$570	\$518	\$475	\$439	\$407	\$380	\$356	\$335	\$317
24,000 BTU's	(2.0-ton)	\$760	\$691	\$634	\$585	\$543	\$507	\$475	\$447	\$422
30,000 BTU's	(2.5-ton)	\$950	\$864	\$792	\$731	\$679	\$634	\$594	\$559	\$528
36,000 BTU's	(3.0-ton)	\$1,140	\$1,037	\$950	\$877	\$815	\$760	\$713	\$671	\$634
42,000 BTU's	(3.5-ton)	\$1,331	\$1,210	\$1,109	\$1,024	\$950	\$887	\$832	\$783	\$739
48,000 BTU's	(4.0-ton)	\$1,521	\$1,382	\$1,267	\$1,170	\$1,086	\$1,014	\$950	\$894	\$845
60,000 BTU's	(5.0-ton)	\$1,901	\$1,728	\$1,584	\$1,462	\$1,358	\$1,267	\$1,188	\$1,118	\$1,056

MONTHLY COOLING SUBTOTALS:

April	\$ _____	/ year x	0.06	= \$ _____
May	\$ _____	/ year x	0.13	= \$ _____
June	\$ _____	/ year x	0.18	= \$ _____
July	\$ _____	/ year x	0.19	= \$ _____
August	\$ _____	/ year x	0.19	= \$ _____
September	\$ _____	/ year x	0.17	= \$ _____
October	\$ _____	/ year x	0.08	= \$ _____

ESTIMATED SUMMER MONTH BILL {for desired month} (base + cooling) \$ _____

Central Electric Heating Systems

Assumptions Design temperatures = 31°F outside; 68°F inside.
Operates 1,159 hours - a moderate season. Costs \$0.12/kWh.

Size	Heat Strip	HEAT PUMP YEARLY COSTS - HEATING SEASON PERFORMANCE FACTOR HSPF:								
			5.1	6.8	7.7	8.5	9.4	10.2	11.1	11.9
24,000 (2.0-ton)	\$ 978	\$ 654	\$ 491	\$ 433	\$ 393	\$ 355	\$ 327	\$ 301	\$ 280	
30,000 (2.5-ton)	\$1,223	\$ 818	\$ 614	\$ 542	\$ 491	\$ 444	\$ 409	\$ 376	\$ 351	
36,000 (3.0-ton)	\$1,467	\$ 982	\$ 736	\$ 650	\$ 589	\$ 533	\$ 491	\$ 451	\$ 421	
42,000 (3.5-ton)	\$1,712	\$1,145	\$ 859	\$ 759	\$ 687	\$ 621	\$ 573	\$ 526	\$ 491	
48,000 (4.0-ton)	\$1,957	\$1,309	\$ 982	\$ 867	\$ 785	\$ 710	\$ 654	\$ 601	\$ 561	
60,000 (5.0-ton)	\$2,446	\$1,636	\$1,227	\$1,084	\$ 982	\$ 888	\$ 818	\$ 752	\$ 701	
72,000 (6.0-ton)	\$ 2,935	\$ 1,963	\$ 1,473	\$ 1,300	\$ 1,178	\$ 1,065	\$ 982	\$ 902	\$ 841	

MONTHLY HEATING SUBTOTALS:

November	\$ _____	/ year x	0.04	= \$ _____
December	\$ _____	/ year x	0.33	= \$ _____
January	\$ _____	/ year x	0.34	= \$ _____
February	\$ _____	/ year x	0.26	= \$ _____
March	\$ _____	/ year x	0.03	= \$ _____

ESTIMATED WINTER MONTH BILL {for desired months} (base + heating) \$ _____

>> Disclaimer <<

While GRU can guarantee neither the accuracy of these estimates nor assume liability for their use, these estimates are reasonable and can be used as general guidelines for estimating your monthly bill. The magnitude of error of these estimates will be affected by equipment and condition, a home's heat loss and heat gain characteristics, operational and family usage patterns, and weather intensity.