

# Weatherization Program

**Table 2-1: Minnesota Electric Usage Chart**

HOUSEHOLD SERVICES	Avg. Monthly kWh	Avg. Monthly Cost
Laundry	Total kWh X \$.07	Cost in \$
Washer (used 12 hours a month)	9	0.63
Dryer (electrically heated model, used 20-30 hours a month)	150	10.51
Iron (used 16 hours a month)	12	0.84
Well pump (3/4 horsepower)	20	1.40
Water heater (52 gallons, quick recovery, depending on temperature setting) *NOTE: kWh = kilowatt-hour. To find the monthly kWh, estimate the number of hours of use per month, multiply by wattage, then divide by 1,000.	100 kWh/tank -- plus 100 kWh per person. A 5-person household can have costs up to \$35.00 or more per month, especially if water temperature is set on hot.	
Cooking and Refrigeration		
Stove or electric range for a family of 4, depending on cooking styles and use	100	7.00
Microwave oven (1,450 watts; used 20 minutes a day)	16	1.12
Dishwasher (with heater unit)	26	1.82
Toaster (used once a day)	3	0.21
Coffee makers. Depends on size (kW) and may vary for each household.	(size X hours of use)	Up to 4.00
Refrigerator/freezer - older model/not energy efficient (upright, 14 cu. ft.)	95	6.65
Refrigerator/freezer - energy-efficient model (upright, 18 cu. Ft.)	53	3.71
Refrigerator/freezer - energy efficient model (side-by-side, 20 cu. ft.)	71	4.97
Freezer - older model/not energy-efficient (15 cu. Ft., manual defrost)	100	7.00
Freezer - energy-efficient model (9 cu. ft. chest)	25	1.75
Freezer - energy-efficient model (9 cu. ft. upright)	34	2.38
Home Entertainment		
VCR (used 10 hours a week)	2	0.14
Personal computer (used 40 hours a week)	20	1.40
Television (color, used 50 hours a week)	41	2.87
Stereo system	9	0.63

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HOUSEHOLD SERVICES	Avg. Monthly kWh	Avg. Monthly Cost
<b>Heating and Air Conditioning</b>	<b>Total kWh X \$0.7</b>	<b>Cost in \$</b>
Oil burner (26-60 kWh per month, varies with weather conditions)	60	4.20
Supplementary electric heaters. Depends on size (kW) and number of units.	(size X hours of use)	Up to 120.00
Furnace fan or circulator (50-100 kWh, varies with weather conditions)	100	7.00
Small air conditioner (depends on size and efficiency and weather conditions)	300	21.00
Large window-design air conditioner	670	46.90
Roof and gutter cable heaters for ice dams (100 feet/7 watts per foot)	500 kWh	35.00
<b>Other Appliances</b>		
Hair dryer (used once a day)	2	0.14
Power tools (saws, drills, sanders, etc.)	3	0.21
Vacuum cleaner (used 1 hour a week)	4	0.28
Waterbed heater	100	7.00
Electric blanket	14	0.98
Dehumidifiers. Depends on size (kW) of each unit and hours of operation.	(size X hours of use)	Up to 20.00
Humidifier (without heating element, portable)	25 - 60	1.75 - 4.20
Humidifier (without heating element, furnace type)	20 - 30	1.40 - 2.10
Auto engine block heater used in the winter. Depends on size (kW) and usage,	(size X hours of use)	Up to 25.00
<b>Incandescent Lighting (varies seasonally)</b>		
5-room house (winter months)	50	3.50
8-room house (winter months)	80	5.60
Lawn light (dusk to dawn)	35	2.45
NOTE: Compact fluorescent lights use up to 75% less energy and can last up to 10 times longer than incandescent light bulbs.	If you switch to compact fluorescent lights.	It is only one fourth of these cost estimates.
These estimates are from "Facts About Your Electric Bill" by Minnesota Power, and the Department of Commerce's Energy Information Center. Minnesota Power's typical residential customer pays \$.07 cents per kilowatt-hour. A typical household uses about 700 kWh per month.		