



**Western Massachusetts
Electric**

The Northeast Utilities System



WHAT DOES IT COST?

Understanding electric usage
and costs within your home

Western Massachusetts
Electric

The Northeast Utilities System

P.O. Box 2010
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BECOME MORE ENERGY EFFICIENT

What does energy efficiency mean to you? With a little time and effort, it could mean saving energy, more money in your pocket, and a reduction of your carbon footprint. This brochure features WMECO's energy efficiency programs, tips to help reduce your energy usage and average operating costs of common household appliances.

Making informed decisions about energy usage is key to lowering your bills. Knowing the cost to run appliances in your home can help you make wise choices in how you use energy. You can also visit www.wmeco.com for information about our energy efficiency programs, payment plans and much more to help manage costs. ENERGY STAR® also offers extensive information on energy efficiency at www.energystar.gov.

Note: Many appliances are subject to the Federal Trade Commission's labeling rule that requires an Energy Guide label be displayed with the product. Reference this guide for information about the annual energy cost for the appliance and comparable models.



www.energystar.gov

WMECO'S ENERGY EFFICIENCY PROGRAMS

MassSAVE

An energy audit program offered to WMECO customers who heat their homes with electricity, oil or propane (customers heating with natural gas are eligible through their gas distribution company).

- No-cost, no-obligation home energy assessment
- Energy saving tips and incentives
- WMECO pays up to 50 percent (\$1,500) of the cost to install insulation and air sealing, or you may be eligible for up to \$10,000 in an interest-free loan to complete qualifying measures
- Visit www.masssave.com or call 800.666.3303 for more information

Energy Bucks

A statewide marketing campaign directing income-eligible customers to their local Community Action Agency to apply for fuel assistance, utility discounts and weatherization services. Referrals can be made for enrollment in utility arrearage management programs. For more information go to www.energybucks.com or call 866.537.7267.

ENERGY STAR Qualified Lighting

WMECO partners with manufacturers and local retailers to offer a reduced price on ENERGY STAR qualified lighting products. Look for these savings at your participating hardware or "do-it-yourself" store or supermarkets such as Big Y, Stop & Shop or Whole Foods.

WMECO customers are also able to purchase energy-efficient lighting from an on-line version of the ENERGY STAR Lights Catalog, where a variety of products are sold at reduced prices. For more information, visit www.myenergystar.com or call 877.ESTAR.4.U (877.378.2748).

For more information on any of WMECO's energy efficiency programs, please visit www.wmeco.com.

TIPS

ENERGY SAVING TIPS

- 1 Replace 10 incandescent light bulbs with 10 compact fluorescent light bulbs and save up to \$75 per year. ENERGY STAR qualified light bulbs use about 75 percent less energy than standard incandescent light bulbs and last up to 10 times longer.
- 2 Use programmable thermostats, which automatically adjust your home's temperature settings, and save approximately 10 percent per year on your heating and cooling bills.
- 3 Get rid of that second old refrigerator and save approximately \$170 per year. If you use the second refrigerator for beverage storage, replace it with a small, ENERGY STAR qualified compact refrigerator that will pay for itself in energy savings in the first year.
- 4 Switch to an ENERGY STAR qualified clothes washer and save approximately 40 percent of energy, up to \$95 with an electric hot water system and up to \$75 with other fossil fuel water heaters, and 9,000 gallons of water per year compared to a standard clothes washer.
- 5 Use a clothes line during summer instead of a dryer and save up to \$85 per year in energy costs.
- 6 Insulate the envelope or shell of your home – its outer walls, ceilings, windows, doors and floors – and save up to 20 percent in heating and cooling costs.
- 7 Replace standard appliances with ENERGY STAR qualified appliances and save up to 30 percent in energy costs.
- 8 Take shorter showers and save approximately 3,200 gallons of water per year, 30 percent in energy and up to \$65 in energy costs annually.
- 9 Use outdoor lights with a photocell or motion sensor so they will turn on only at night or when someone is present and increase your energy savings by approximately 50 percent.
- 10 Open the curtains and shades on the south-facing windows in the winter to let in the sun. Close the curtains and shades on the south-facing windows in the summer to reduce solar gain.



Calculating the Operating Cost of Appliances:

The costs in this guide are calculated using approximate wattage and usage hours. To calculate the exact cost of operating an appliance in your home, use the following formula:

$$\text{Watts} \div 1,000 \times \text{hours used} = \text{kilowatt-hours (kWh)}$$

$$\text{kWh} \times \text{rate per kWh} (\$.17146) = \text{operation cost}$$

For example, the cost of operating a 100-watt incandescent light bulb for 8 hours is:

$$100 \div 1,000 \times 8 = 0.8 \text{ kWh}$$

$$0.8 \times 0.17146^{**} = \$0.1372 \text{ (or about 14¢)}$$

**Rate per kWh as of July 1, 2008 for a residential customer who chooses Default Service.

Note: The wattage and kWh used in the following charts are estimates and are intended to be used as a guide. Your use and operating costs may vary due to factors such as model, year, wattage rating, actual hours used and power-setting used.

OPERATING COSTS

Type of Appliance	Estimated Wattage	Estimated Hours of Use/Month	Estimated Monthly kWh	Estimated Cost Per Month	Type of Appliance	Estimated Wattage	Estimated Hours of Use/Month	Estimated Monthly kWh	Estimated Cost Per Month
HVAC					KITCHEN				
Air Conditioner*					Refrigerators*				
5000 BTU	500	200	75	\$12.86	16 cu feet- Frostless	510	720	147	\$25.20
7000 BTU	750	200	112	\$19.20	20 cu feet- Frostless	594	720	171	\$29.32
10000 BTU	1000	200	150	\$25.72	21 cu feet- Side by Side	653	720	155	\$26.58
Ceiling Fan with 3 60 Watt bulbs	230	360	83	\$14.23	25 cu feet- Side by Side	841	720	200	\$34.29
Attic Fan	400	360	144	\$24.69	Chest Freezer*				
Window Fan 12"	60	360	22	\$3.77	9 cu ft - Frostless	450	720	130	\$22.29
Window Fan 20"	180	360	65	\$11.14	14 cu ft - Frostless	583	720	168	\$28.81
Dehumidifier*	400	720	288	\$49.38	Dishwasher				
Humidifier – table top (Cold Mist)	90	720	65	\$11.14	Dry Cycle*	1000	20	10	\$1.71
Humidifier – table top (Warm Mist)	300	720	216	\$37.04	Without Dry Cycle	200	20	4	\$0.69
Portable Space Heater	1500	75	113	\$19.37	Oven, Electric*	3500	12	15	\$2.57
Heat Pump with Blower – 1500 ft	4500	720	2125	\$364.35	Small Burner (1)	1200	10	12	\$2.06
Oil or Gas Burner Motor .5 HP	400	720	288	\$49.38	Large Burner (1)	2400	10	24	\$4.12
Electric Water Heater – 4 ppl (120 degrees & 52 gal)*	4500	720	519	\$88.99	Microwave Oven	800	15	12	\$2.06
Air Cleaner	120	720	86	\$14.75	Toaster Oven	1500	5	2	\$0.34
Well Pump 1 HP – Shallow	1000	81	81	\$13.89	Coffee Maker	900	15	14	\$2.40
Well Pump 2 HP – Deep	2000	81	162	\$27.78	ELECTRONICS				
APPLIANCES					Desktop PC (Computer & Monitor)	250	120	30	\$5.14
Washing Machine	665	24	16	\$2.74	Desktop PC (Computer & Monitor)	250	720	180	\$30.86
Clothes Dryer	5500	18	99	\$16.97	Laptop Computer	75	120	9	\$1.54
Vacuum Cleaner	740	2	1.5	\$0.26	Radio (small desk)	15	170	3	\$0.51
Hot Tub (4 Person) Insulated/Indoors*	1500	720	162	\$27.78	Television				
Swimming Pool – Above Ground*	500	360	90	\$15.43	Color Tube 36	133	120	16	\$2.74
Swimming Pool – In Ground (18x36)*	750	360	135	\$23.15	LCD (32" - 50" Average)	108	120	13	\$2.23
Whirlpool Bathtub	1800	15	27	\$4.63	Plasma (42" - 50")	375	120	45	\$7.72
Sump Pump	500	20	10	\$1.71	DVD Player	25	24	0.6	\$0.10
Waterbed (Queen) at 90 degrees*	375	720	194	\$33.26	Treadmill 2 HP	1500	10	15	\$2.57
LIGHTING					Elliptical	100	10	1	\$0.17
60 Watt Incandescent	60	240	14	\$2.40	Electrostatic Cleaner	40	720	29	\$4.97
60 Watt Incandescent	60	720	43	\$7.37	Hair Dryer (Hand Held)	1200	5	6	\$1.03
100 Watt Incandescent	100	240	24	\$4.12	Electric Blanket*	150	240	18	\$3.09
100 Watt Incandescent	100	720	72	\$12.35	Bug Killer	40	60	2	\$0.34
18 Watt Compact Fluorescent	18	240	4	\$0.69	Iron (Hand)*	1100	10	6	\$1.03
18 Watt Compact Fluorescent	18	720	13	\$2.23	50 Gallon Fish Tank (Heater) (inc light & filter)*	230	720	83	\$14.23
23 Watt Compact Fluorescent	23	240	6	\$1.03					
23 Watt Compact Fluorescent	23	720	17	\$2.91					

* While some appliances are plugged in, they are only drawing electricity for a percentage of time. Thermostatically controlled appliances (such as refrigerators) are on 30 percent to 80 percent of the actual time used. This means that the Estimated Monthly kWh is lower than the calculation, Watts/1,000 x hours used, shows. Other appliances that draw electricity for a percentage of time include air conditioners, hot tubs, refrigerators and freezers, to name a few.