



APARTMENT & CONDO EFFICIENCY SERVICES



ENERGY STAR PRODUCTS



HOME PERFORMANCE WITH ENERGY STAR



WISCONSIN ENERGY STAR HOMES

For more information call 800-762-7077 or visit focusonenergy.com

Electricity use is on the rise in most homes. One reason we're using more electricity is because we're using more electronic equipment. We have home computer systems, home entertainment systems, VCRs and answering machines as well as the traditional home appliances (refrigerators, stoves, washers, etc.). Some of these appliances use electricity even when they are turned off. The average Wisconsin homeowner spends about \$400 per year on electricity to run their appliances and household electronic equipment.

BUYING EFFICIENT APPLIANCES

One way to reduce appliance energy use is to buy the most energy efficient appliances available. When you're in the market for a new appliance or other household electronic equipment, look for ENERGY STAR qualified products. The ENERGY STAR is awarded to those products that meet or exceed established criteria for energy efficiency and are as much as 10 percent to 50 percent more efficient than their conventional counterparts. They use less energy and save you money.

Refrigerators and air conditioners

In many households, the refrigerator uses more energy than any other household appliance. An average older model uses more than 1,000 kWh per year. New models that meet the federal appliance efficiency standards use only 800 kWh per year and ENERGY STAR qualified refrigerators use less than 600 kWh per year. Replacing an older refrigerator with an ENERGY STAR qualified model can save you up to \$85 in annual energy costs. Even if your old refrigerator still runs, it makes economic sense to replace it.

Conventional room air conditioners are also high energy users. Even if your current air conditioner still runs, it may be cost-effective to replace it with an ENERGY STAR qualified model. Doing so can save you an average of \$14 a year in energy costs.

Computers and monitors

Frequently, computer equipment is turned on and left on even if it is not being used. ENERGY STAR qualified computer equipment has a "sleep" mode that reduces the power consumption when the equipment is on but not being used.

An ENERGY STAR qualified monitor consumes up to 90 percent less energy than models without power management features.



REFRIGERATORS (18.5–20.5 CUBIC FEET)		
TYPE AND YEAR OF PURCHASE	TYPICAL KWH/MONTH	ESTIMATED MONTHLY COST*
Top freezer—purchased before 1990	100	\$8.00
Top freezer—purchased between 1990 & 1993	70	\$5.60
Top freezer—purchased after 1993	55	\$4.40
ENERGY STAR—top freezer	37	\$2.96
Side-by-side—purchased before 1990	135	\$10.80
Side-by-side—purchased between 1990 & 1993	100	\$8.00
Side-by-side—purchased after 1993	70	\$5.60
ENERGY STAR—side-by-side	48	\$3.84

*CALCULATED AT 8¢ PER KWH



COMMON HOUSEHOLD APPLIANCES				
EQUIPMENT	TYPICAL WATTAGE	HOURS IN USE (PER MONTH)	KWH/MONTH	ESTIMATED MONTHLY COST
Air Conditioner		(typical July)		
Central (30,000 BTU)				
Conventional SEER 7.5	4,000	180	720	\$57.60
Conventional SEER 10	3,000	180	540	\$43.20
ENERGY STAR SEER 13	2,300	180	414	\$33.12
Room (8,000 BTU)				
Conventional EER 7.5	1,070	180	193	\$15.41
Conventional EER 10	800	180	144	\$11.52
ENERGY STAR EER 11	730	180	131	\$10.51
Aquarium Pump	Varies	730	Varies	up to \$40.00
Blender	300	*	*	*
Broiler (portable)	1,200	7	8	\$0.64
Can Opener	100	*	*	*
Clock Radio	8	730	6	\$0.47
Clothes Dryer	5,500	16	88	\$7.04
Clothes Washer (25 loads/month)				
(Electric Water Heater)				
Conventional	NA	NA	68	\$5.46
ENERGY STAR	NA	NA	29	\$2.29
(Gas Water Heater)				
Conventional	NA	NA	see footnotes	\$2.60
ENERGY STAR	NA	NA	bottom left	\$1.11
Coffee Maker (drip)				
Brew Cycle	1,100	8	9	\$0.72
Warm	70	57	4	\$0.32
Convection Oven (portable)	1,500	3	5	\$0.40
Corn Popper				
Hot Air	1,400	1	1	\$0.40
Oil	575	2	1	\$0.08
Curling Iron	40	*	*	*
Deep Fryer				
Regular Size	1,500	2	3	\$0.24
Small Size	600	2	1	\$0.08
Dehumidifier				
Conventional (40 pint)	900	240	216	\$17.28
ENERGY STAR (40 pint)	600	240	144	\$11.52
Dishwasher (one load/day)				
Not including hot water				
Conventional Unit	2,000	25	58	\$4.67
ENERGY STAR Unit	1,800	25	46	\$3.70
With hot water from electric water heater	1,200	100	120	\$9.60
With hot water from gas water heater	NA	NA	1 Therm	\$0.64
Electric Blanket	75	240	18	\$1.44
Fan				
Ceiling	100	250	25	\$2.00
ENERGY STAR Ceiling	40	250	10	\$0.80
Window	200	150	30	\$2.40
Food Processor	720	*	*	*

*CALCULATED AT 8¢ PER KWH

¹Conventional Gas Water Heater—based on 6 kWh of electricity and 3 therms of gas.

²ENERGY STAR qualified Gas Water Heater—based on 3 kWh of electricity and 1 therm of gas.

*Uses less than one kWh/month; costs less than 10 cents per month to operate.

COMMON HOUSEHOLD APPLIANCES				
EQUIPMENT	TYPICAL WATTAGE	HOURS IN USE (PER MONTH)	KWH/MONTH	ESTIMATED MONTHLY COST
Freezer (16 cu.ft., upright)	200	375	75	\$6.00
Frying Pan	1,200	7	8	\$0.64
Garage Door Opener	350	3	1	\$0.08
Garbage Disposal	445	*	*	*
Hair Dryer (hand held)	1,400	2	3	\$0.24
Heat Lamp (infrared)	250	4	1	\$0.08
Hot Tub	Varies	Varies	Varies	\$30.00
Humidifier (portable)	175	149	26	\$2.08
Iron (steam)	1,200	4	5	\$0.40
Mattress Pad Heater (full-queen)	180	122	22	\$1.76
Microwave Oven (full power)	1,500	7	10	\$0.80
Nightlight	7	730	5	\$0.41
Radio	8	730	6	\$0.47
Range (electric)	12,200	6	75	\$6.00
Refrigerator (see table on page 1)				
Sandwich Grill	1,150	3	3	\$0.24
Sewing Machine	75	13	1	\$0.08
Slow Cooker	200	50	10	\$0.80
Space Heater	1,500	90	135	\$10.80
Swimming Pool Pump (1/2 hp)	600	730	432	\$35.04
Toaster (two slice)	1,100	3	3	\$0.24
Toaster Oven/Broiler				
Toaster	1,500	2	3	\$0.24
Oven	1,500	3	5	\$0.40
Broiler	830	5	4	\$0.32
Toothbrush (with charger)	1	730	1	\$0.06
Trash Compactor	460	2	1	\$0.08
Vacuum Cleaner	1,000	6	6	\$0.48
Waterbed (king size 90°F)				
Room 70°F With Comforter	370	332	123	\$9.84
Room 60°F With Comforter	370	527	195	\$15.60
Water Heater (52 gal.—electric)	4,500	76	342	\$27.36
Water Pump	460	43	20	\$1.60
Water Softener	4	730	3	\$0.23

*CALCULATED AT 8¢ PER KWH

*Uses less than one kWh/month; costs less than 10 cents per month to operate.

HOME ELECTRONIC AND COMPUTER EQUIPMENT					
EQUIPMENT	WATTS USED WHEN "ON"	WATTS USED WHEN "OFF" OR "ASLEEP"	HOURS IN USE (PER MONTH)	KWH/MONTH	ESTIMATED MONTHLY COST*
Conventional TV	75.0	5.9	180	16.7	\$1.34
ENERGY STAR TV	71.6	2.5	180	14.3	\$1.14
Conventional VCR	12.5	5.1	10	3.7	\$0.30
ENERGY STAR VCR	10.9	3.5	10	2.6	\$0.21
Conventional DVD	17.8	4.5	70	4.5	\$0.36
ENERGY STAR DVD	14.1	0.9	70	1.8	\$0.15
Stereo (rack system)	51.9	3.2	30	3.8	\$0.30
ENERGY STAR stereo (rack system)	49.6	0.9	30	2.1	\$0.17
Conventional computer	55	NA	5	8.3	\$0.66
ENERGY STAR computer	48	30	3 on & 2 in sleep	6.1	\$0.49
Conventional monitor	85	NA	5	12.8	\$1.02
ENERGY STAR monitor	81	15	3 on & 2 in sleep	8.2	\$0.66

*CALCULATED AT 8¢ PER KWH

USING A WATT METER TO MEASURE APPLIANCE ENERGY USE

A watt meter is an electronic instrument that can help you determine exactly how much energy your appliances are using. Plug the meter into the appliance and you can measure how much electricity your appliances are using and what they are costing you. The meter will display wattage, cumulative kilowatt hours and cumulative cost. In many Wisconsin communities, you can borrow a watt meter from your public library.

The amount of electricity used is measured as a kilowatt-hour, which is equal to one kilowatt (or 1,000 watts) of electricity used steadily for one hour. For example, ten 100-watt light bulbs, left on for one hour, would use one kilowatt-hour (or 1,000 watt hours) of electricity.

LEARN MORE focusonenergy.com

Contact Focus to learn more about smart energy choices.

energystar.gov

ENERGY STAR Appliances: This site provides information on energy efficient appliances that meet ENERGY STAR standards. The product information page has a link to a calculator that lets you compare operating costs and energy use of an ENERGY STAR qualified appliance with a non-qualified appliance.

homeenergy.org/consumerinfo/refrigeration2/article.htm

Home Energy Magazine, Consumer Information: "Identifying Refrigerators to Recycle Early: Replacing Your Refrigerator." This online article provides information on determining whether it is cost effective to replace your refrigerator. Includes links to a database of older model refrigerators.

homeenergy.org/consumerinfo/fans/ceilingfanw.html

Home Energy Magazine, Consumer Information: "Getting the Most from Your Fan: Tips for Maximizing Energy Savings."



Home electronic equipment

Many home electronics use electricity even when the equipment is switched off. Standby electricity accounts for about four to seven percent of total electrical consumption in Wisconsin homes (40 to 70 watts—equivalent to leaving an incandescent lightbulb burning all the time). Any appliance with an external power supply, remote control or clock display requires standby electricity. These appliances include TVs, VCRs, cable boxes, stereo systems and telephone answering machines.

Focus on Energy is a public-private partnership offering energy information and services to energy utility customers throughout Wisconsin. The goals of this program are to encourage energy efficiency and use of renewable energy, enhance the environment, and ensure the future supply of energy for Wisconsin. For information about the Focus on Energy services and programs, call 800.762.7077 or visit focusonenergy.com.

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