Lincoln Electric System

QUESTIONS? CONTACT US:

402.475.4211
LES.com

SAVE MONEY ON HOME OPERATING COSTS

MANAGE YOUR ENERGY USAGE TO SAVE MONEY.

How energy is used in our homes

Here in the Midwest, most energy costs come from heating and cooling your home, but appliances, household electronics, lighting and water heaters are major contributors as well.

Many appliances continue to draw power when they are switched "off." These "phantom loads" usually happen with appliances containing digital clocks, such as DVRs, TVs, computers and kitchen appliances. You can unlock savings when you unplug appliances that aren't used regularly.

Choosing energy-efficient equipment can reduce your energy usage, costs and your carbon footprint. The reduction of your energy loads — the power needed to serve you at any given time — helps LES delay the need to build new, high-cost power plants.

ENERGY STAR® appliances can save you 15–40 percent on operating costs. Two refrigerators may have the same capacity and features, but an ENERGY STAR® refrigerator can save you 20 percent on your operating costs!

Calculating operating costs

A watt is the standard unit of measurement of electricity, and a kilowatt-hour — 1,000 watts used in one hour — is a baseline measure of electricity consumption.

You can estimate the cost of operating any appliance in your home with this simple formula:

(Appliance's wattage x operating hours) ÷ 1,000 = kWh energy consumed

So here's how you'd calculate a 50-watt laptop operated for 300 hours in a month:

(50 Watts x 300 hours) ÷ 1,000 = 15 kWh

Then multiply the kWh by LES' average rate, and you have the cost of operating that laptop for a month.

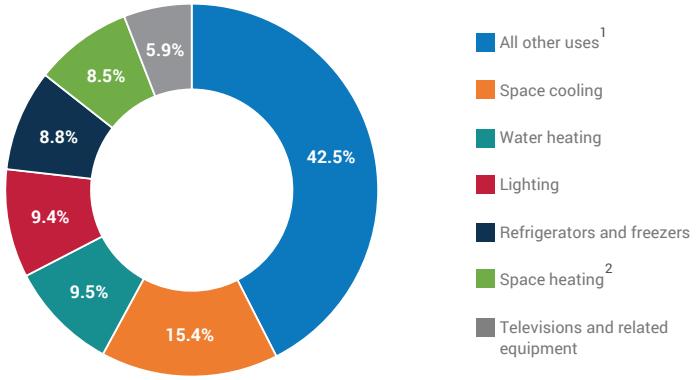
15 kWh x $.0747 = $1.12 per month

LES' em.Powered™ monthly e-newsletter provides you with simple tips to save money by saving energy. To sign up, visit **LES.com**.

Typical home operating costs

Here are some of the most popular home appliances, electronics and comfort systems' typical wattage and operating costs based on a family of four's average usage. (Your electricity use may be different because of your family size or power usage.)

U.S. residential sector electricity consumption by major end uses, 2017



[1] Includes miscellaneous appliances, clothes washers and dryers, computers and related equipment, stoves, dishwashers, heating elements and motors.

[2] Includes consumption for heat and operating furnace fans and boiler pumps.

Chart from: eia.gov/energyexplained/index.cfm?page=electricity_use

General Household

DESCRIPTION	TYPICAL WATTAGE	AVERAGE COST/MONTH AVERAGE COST/SEASON	AVERAGE COST/HOUR
CLOCK	24 HRS/DAY	3	$0.15	0.0¢
ELECTRIC MOTOR (POND PUMP)	24 HRS/DAY	180	$8.89	1.2¢
HAIR DRYER	10 MINUTES/DAY	1,200	$0.41	8.0¢
RADIO	10 HRS/DAY	25	$0.51	0.2¢
INCANDESCENT BULB - 60W	5 HRS/DAY	60	$0.62	0.4¢
LED REPLACEMENT FOR 60W INCANDESCENT BULB	5 HRS/DAY	8	$0.08	0.1¢
INCANDESCENT BULB - 75W	5 HRS/DAY	75	$0.77	0.5¢
LED REPLACEMENT FOR 75W INCANDESCENT BULB	5 HRS/DAY	12	$0.12	0.1¢
INCANDESCENT BULB - 100W	5 HRS/DAY	100	$1.03	0.7¢
LED REPLACEMENT FOR 100W INCANDESCENT BULB	5 HRS/DAY	15	$0.15	0.1¢

Home Electronics

COMPUTER DESKTOP & 17˝ LCD MONITOR	5 HRS/DAY	270	$2.78	1.8¢
LAPTOP / TABLET	5 HRS/DAY	75	$0.77	0.5¢
POWER ADAPTER - CELL PHONE	24 HRS/DAY	3	$0.15	0.0¢
PRINTER	1 HR/DAY	50	$0.10	0.3¢
DVR	2 HRS/DAY	30	$0.12	0.2¢
SATELLITE/CABLE BOX	24 HRS/DAY	35	$1.73	0.2¢
TELEVISION - 42˝ PLASMA	5 HRS/DAY	220	$2.26	1.5¢
TELEVISION - 42˝ LCD	5 HRS/DAY	120	$1.23	1.0¢
TELEVISION - 42˝ LED	5 HRS/DAY	80	$0.82	1.0¢

Air Conditioning/Heat Pump — If replacing your air conditioner/heat pump, check out LES' incentives at **LES.com/SEP**.

CENTRAL UNIT - 13 SEER - 24,000 BTU	2 TON	1,846	$118.80 *	16.0¢
CENTRAL UNIT - 13 SEER - 36,000 BTU	3 TON	2,769	$178.20 *	24.0¢
CENTRAL UNIT - 17 SEER - 24,000 BTU	2 TON	1,412	$90.85 *	12.0¢
CENTRAL UNIT - 17 SEER - 36,000 BTU	3 TON	2,118	$136.27 *	18.0¢
WINDOW UNIT - 13 SEER - 12,000 BTU	1 TON	923	$59.40 *	8.0¢

Comfort

	DESCRIPTION	TYPICAL WATTAGE	AVERAGE COST/MONTH AVERAGE COST/SEASON	AVERAGE COST/HOUR
DEHUMIDIFIER (SMALL - 25 PINTS)	24 HRS/DAY	350	$21.91 *	3.0¢
DEHUMIDIFIER (MEDIUM - 45 PINTS)	24 HRS/DAY	590	$36.93 *	5.0¢
DEHUMIDIFIER (LARGE - 56 PINTS)	24 HRS/DAY	650	$40.69	6.0¢
SPACE HEATER	4 HRS/DAY	1,500	$10.69	9.0¢
FAN - BOX	24 HRS/DAY	100	$4.94	1.0¢
FAN - CEILING (HIGH SPEED)	24 HRS/DAY	90	$4.44 *	1.0¢
FAN - CEILING (LOW SPEED)	24 HRS/DAY	50	$2.47	0.0¢
FAN - WHOLE HOUSE (1 HP)	12 HRS/DAY	900	$22.22	6.0¢
ELECTRIC MOTOR (FURNACE FAN 1/2 HP)	24 HRS/DAY	500	$24.68	3.0¢
WATER HEATER (40 GALLON)	4 OCCUPANTS	4,500	$24.36	30.0¢
1 HP PUMP (POOL OR WELL)	5 HRS/DAY	900	$9.29	6.0¢

Kitchen & Utility

CLOTHES DRYER	5 LOADS/WK	5,000	$5.46	34.0¢
WASHING MACHINE (JUST MACHINE OPERATION)	5 LOADS/WK	650	$0.71	4.0¢
COFFEE MAKER	1 POT/DAY	300	$0.78	2.0¢
DISHWASHER	1 LOAD/WK	1,200	$2.47	8.0¢
MICROWAVE	10 MINUTES/DAY	1,000	$0.34	7.0¢
OVEN	1 HOUR/DAY	3,500	$7.20	24.0¢
RANGE - 8˝ SURFACE UNIT	1 HOUR/DAY	2,600	$5.35	18.0¢
TOASTER	5 MINUTES/DAY	1,100	$0.19	7.0¢
VACUUM CLEANER	.5 HOURS/DAY	740	$0.76	5.0¢

Manufactured After 2010

REFRIGERATOR - TOP FREEZER W/ENERGY STAR	16–19 CU. FT.		$2.10	
REFRIGERATOR - TOP FREEZER W/ENERGY STAR	20–25 CU. FT.		$2.37	
REFRIGERATOR - SIDE-BY-SIDE W/ENERGY STAR	20–25 CU. FT.		$2.57	

Manufactured After 1993

FREEZER - CHEST W/O AUTO DEFROST			$3.72	
FREEZER - UPRIGHT W/AUTO DEFROST	16–19 CU. FT.		$6.09	
REFRIGERATOR - TOP FREEZER W/O AUTO DEFROST	16–19 CU. FT.		$5.08	
REFRIGERATOR - TOP FREEZER W/AUTO DEFROST	20–25 CU. FT.		$6.77	
REFRIGERATOR - SIDE-BY-SIDE W/AUTO DEFROST	20–25 CU. FT.		$8.12	

Manufactured Before 1993

FREEZER - CHEST W/O AUTO DEFROST			$5.35	
FREEZER - UPRIGHT W/AUTO DEFROST	16–19 CU. FT.		$8.46	
REFRIGERATOR - TOP FREEZER W/O AUTO DEFROST	16–19 CU. FT.		$11.50	
REFRIGERATOR - TOP FREEZER W/AUTO DEFROST	20–25 CU. FT.		$14.55	
REFRIGERATOR - SIDE-BY-SIDE W/AUTO DEFROST	20–25 CU. FT.		$17.59	

SUMMER RATE	**8.58¢ ***
WINTER RATE	**5.86¢**
AVERAGE RATE	**6.77¢**

Electric costs are based on LES residential rates effective Jan. 1, 2018. *All cooling comfort is based on summer rates.
7/2018

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PO Box 80869
Lincoln, NE 68501

LES.com