


home energy consumption list

A list of electric household appliances, and their operating cost

 **Yukon Electrical**
An **ATCO** Company

yukonelectrical.com 

Helping Yukoners make wise electricity choices

by the numbers: electricity consumption

How much electricity do appliances and devices use?

Determine the wattage of each device and use this formula to calculate the cost per month:

$$\begin{aligned} \text{Watts}/1,000 \times \text{hours/day} \times \text{days/month} &= \text{kWh/month} \\ \text{kWh/month} \times \$/\text{kWh} &= \$/\text{month} \end{aligned}$$

For example, to determine the monthly cost of a 60 watt light bulb that is operated for eight hours each day, the calculation would be:

$$\begin{aligned} 60\text{W}/1,000 \times 8 \text{ hours/day} \times 30 \text{ days/month} &= 14.4 \text{ kWh/month} \\ 14.4 \text{ kWh/month} \times \$0.145/\text{kWh} &= \$2.08 \end{aligned}$$

Your 60 watt light bulb is costing you \$2.08 per month to operate for eight hours a day.

This formula will work for most household items that will draw the same amount of power 100% of the time. However, it does not apply to items that cycle, or draw different amounts of electricity at different times, such as a refrigerator. If you have any questions relating to an appliance's energy usage, please contact us at **867-633-7000** or **1-800-661-0513**.

Following is a breakdown of common appliances and devices in your home and their typical usage and cost. The operating cost is based on \$0.145 per kWh and an average amount of time the appliance or device is used. This information is meant as a guideline only. For a more exact calculation, use the above formula with exact cost and usage data.

Watt (W): measure of energy
1,000 watts = 1 kilowatt (kW)

Kilowatt hour (kWh): measure of electrical energy used over a period of time.



hourly



12 hours



monthly

kitchen

item	kW per hour use	hourly cost
● blender (counter-top)	0.7	\$0.102
● blender (hand-held)	0.2	\$0.03
● bread maker	0.7	\$0.102
● coffee maker (brewing 12-14 cup)	1.0	\$0.145
● corn popper	1.2	\$0.17
● deep fryer	1.5	\$0.22
● food processor (9-12 cup)	0.6	\$0.09
● garbage disposal	1.0	\$0.145
● indoor grill/griddle	1.6	\$0.23
● kettle (1.2-1.8 litres)	1.5	\$0.22
● microwave (cooking)	1.4	\$0.20
● mixer (hand)	0.2	\$0.03
● mixer (counter-top)	0.4	\$0.06
● range (element)		
large element	2.4	\$0.35
small element	1.3	\$0.189
● rice cooker	0.6	\$0.09
● slow cooker		
low setting	0.1	\$0.015
high setting	0.2	\$0.03
● toaster (2 slice)	1.0	\$0.145
● toaster (4 slice)	1.5	\$0.22
● toaster oven (cooking)	1.5	\$0.22
● waffle iron	1.2	\$0.17
item	monthly kWh use	monthly cost
● dishwasher		
<i>based on 18 loads per month</i>		
standard (1997)	54	\$7.83
standard (2010)	30	\$4.35
ENERGY STAR® (2010)	25	\$3.63
● range (oven)		
self-cleaning (1997)	63	\$9.14
self-cleaning (2010)	44	\$6.38

● hourly ● 12 hours ● monthly

kitchen continued

●	refrigerator		
	side-by-side (1997)	75	\$10.88
	top-mounted (1997)	55	\$7.98
	side-by-side (ENERGY STAR - 2010)	43	\$6.24
	bottom-mounted (ENERGY STAR - 2010)	38	\$5.51
	top-mounted (ENERGY STAR - 2010)	32	\$4.64
	<small>"top-mounted" = freezer on top, "bottom-mounted" = freezer on bottom</small>		
●	water cooler		
	cold only	15	\$2.18
	hot/cold	19	\$2.76
●	wine cooler	25	\$3.63

living room

	item	kW per hour use	hourly cost
●	Blu-ray™ player (playing movie)	0.02	<\$0.01
●	digital picture frame (7"-12")	0.01	<\$0.01
●	DVD player (playing movie)	0.01	<\$0.01
●	mp3 speakers	0.02	<\$0.01
●	receiver		
	200W	0.2	\$0.03
	600W	0.6	\$0.09
	1000W	1.0	\$0.145
●	stereo	0.1	\$0.015
●	sub woofer	0.2	\$0.03
	item	monthly kWh use	monthly cost
●	aquarium	19	\$2.76
●	television		
	<small>based on television on for 5 hrs/day</small>		
	projection tv (65")	32	\$4.64
	CRT (old style tv – 30" - 36")	20	\$2.90
	light emitting diode (LED - 46")	16	\$2.32
	liquid crystal display (LCD - 42")	15	\$2.18
	plasma (42")	15	\$2.18



livingroom continued



television boxes

PVR (1 hr/day)	27	\$3.92
digital cable with PVR (4hrs/day – TV, 1 hr/day – recording)	36	\$5.37
digital cable (5 hrs/day)	19	\$2.76
satellite with PVR (4hrs/day – TV, 1 hr/day – recording)	21	\$3.05
satellite (5 hrs/day)	12	\$1.74



video game console

based on video game console on for 5 hrs/day

PlayStation 3®	30	\$4.35
Xbox 360®	28	\$4.06
Nintendo Wii®	3	\$0.44

bedroom



item

kW per hour use

hourly cost



electric blanket

0.2

\$0.03



electric heating pad

0.06

\$0.52



item

monthly kWh use

monthly cost

alarm clock

3.6

\$0.52

bathroom



item

kW per hour use

hourly cost



curling iron

0.08

\$0.012



flat iron

0.14

\$0.02



hair dryer

1.8

\$0.26



jetted tub

0.8

\$0.12



shaver (charging)

0.003

<\$0.01



toothbrush (charging)

0.002

<\$0.01

laundry

item	kW per hour use	hourly cost
● iron	1.1	\$0.16
● steamer	1.4	\$0.20
item	monthly kWh use	monthly cost
● clothes dryer <i>based on 35 loads per month</i>	76	\$11.02
● washing machine <i>based on 33 loads per month</i>		
top load (1997)	78	\$11.31
top load (2010)	33	\$4.79
front load (ENERGY STAR - 2010)	13	\$1.89

item	kW per hour use	hourly cost
● cell phone charger	0.003	<\$0.01
● computer printer		
ink jet printer (printing)	0.08	\$0.01
ink jet printer (idle)	0.02	<\$0.01
laser printer (printing)	0.5	\$0.07
laser printer (idle)	0.03	<\$0.01
● computer speakers	0.004	<\$0.01
● cordless phone	0.002	<\$0.01
● cordless phone (with answering machine)	0.004	<\$0.01
item	monthly kWh use	monthly cost
● computer & LCD monitor <i>in use for 2 hours per day, in sleep mode for 22 hours per day</i>		
monitor	2	\$0.29
computer	11	\$1.60
<i>in use for 2 hours per day, off for 22 hours per day</i>		
monitor	2	\$0.29
computer	5	\$0.73

lighting

item	12 hour kWh use	12 hour cost
compact fluorescent light (CFL) bulb		
15W (replaces 60W incandescent)	0.18	\$0.26
25W (replaces 100W incandescent)	0.3	\$0.044
40W (replaces 150W incandescent)	0.48	\$0.070
fluorescent tube lighting		
15W	0.18	\$0.03
75W	0.9	\$0.13
halogen lighting		
50W	0.6	\$0.09
150W (exterior floodlight)	1.8	\$0.26
holiday lighting		
string of incandescent (50 bulbs/string)	3.0	\$0.44
string of LED (70 bulbs/string)	0.04	<\$0.01
incandescent light bulb		
60W	0.72	\$0.10
100W	1.2	\$0.17
150W	1.8	\$0.26
light emitting diode (LED)		
10.5W (replaces 50W incandescent)	0.13	\$0.019
night light		
incandescent	0.06	\$0.01
LED	0.004	<\$0.01

basement

item	monthly kWh use	monthly cost
deep freezer		
chest (1997)	44	\$6.38
chest (2010)	33	\$4.79
chest (ENERGY STAR)	30	\$4.35
water heater		
mid-efficiency	406	\$58.87
high-efficiency	385	\$55.83

whole house

item	kW per hour use	hourly cost
air purifier		
	0.09	\$0.01
fans		
ceiling fan	0.08	\$0.01
ENERGY STAR ceiling fan	0.06	\$0.01
ventilation fan	0.08	\$0.01
ENERGY STAR ventilation fan	0.03	<\$0.01
portable fan	0.05	\$0.01
humidifier		
portable	0.06	\$0.01
on furnace	0.01	<\$0.01
vacuum cleaner		
portable	0.7	\$0.08
central	1.4	\$0.15

whole house
continued

item	monthly kWh use	monthly cost
● air freshener	1.8	\$0.26
● space heater		
1000W for 6 hrs./day	180	\$26.10
1000W for 24 hrs./day	720	\$104.40
1500W for 6 hrs./day	270	\$39.15
1500W for 24 hrs./day	1080	\$156.60
2500W for 6 hrs./day	450	\$65.25
2500W for 24 hrs./day	1800	\$261.00

garage

item	kW per hour use	hourly cost
● car block heater		
400W	0.4	\$0.058
600W	0.6	\$0.087

By plugging in your block heater for only 4 hrs per day instead of 12 hrs, your cost savings could be substantial over the course of the winter season!

	4 hrs per day	12 hrs per day
400W block heater	\$6.96/month	\$20.88/month
600W block heater	\$10.44/month	\$31.32/month

● circular saw	1.2	\$0.174
● drill	0.3	\$0.04
● garage door opener	0.4	\$0.06
● jigsaw	0.3	\$0.04
● sander	0.3	\$0.04
● snow blower	1.2	\$0.174
● table saw	1.4	\$0.20

● hourly ● 12 hours ● monthly



outdoor

item	kW per hour use	hourly cost
● edger	0.5	\$0.73
● hedge trimmer	0.3	\$0.04
● lawn mower	1.2	\$0.174

item	monthly kWh use	monthly cost
● hot tub (300 gallons @ 41°C/106°F)		
water heating (indoor)	150	\$21.75
water heating (outdoor)	225	\$32.63
pumping (1/2 horsepower 8 hrs/day)	132	\$19.14
pumping (68% efficient continuous)	395	\$57.28

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4 4