Kome energy consumption list

A list of electric household appliances, and their operating cost



northlandutilities.com



Helping Northerners 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:

Watts/1,000 x hours/day x days/month = kWh/month kWh/month x \$/kWh = \$/month

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:

60W/1,000 x 8 hours/day x 30 days/month = 14.4 kWh/month 14.4 kWh/month x \$0.30/kWh = \$4.32

Your 60 watt light bulb is costing you \$4.32 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 our office in Yellowknife at **867-873-4865**, or our office in Hay River at **867-874-6879 (toll-free: 1-800-264-5313)**.

Following is a breakdown of common appliances and devices in your home and their typical usage and cost. The operating cost is based on \$0.30 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.



*energy rates may fluctuate monthly, which could result in increased or decreased operating costs

kitchen

	item	kW per hour use	hourly cost
	blender (counter-top)	0.7	\$0.21
	blender (hand-held)	0.2	\$0.06
	bread maker	0.7	\$0.21
	coffee maker (brewing 12-14 cup)	1.0	\$0.30
	corn popper	1.2	\$0.36
	deep fryer	1.5	\$0.45
	food processor (9-12 cup)	0.6	\$0.18
	garbage disposal	1.0	\$0.30
	indoor grill/griddle	1.6	\$0.48
	kettle (1.2-1.8 litres)	1.5	\$0.45
	microwave (cooking)	1.4	\$0.42
	mixer (hand)	0.2	\$0.06
	mixer (counter-top)	0.4	\$0.12
	range (element)		
	large element	2.4	\$0.72
	small element	1.3	\$0.39
	rice cooker	0.6	\$0.18
	slow cooker		
	low setting	0.1	\$0.03
	high setting	0.2	\$0.06
	toaster (2 slice)	1.0	\$0.30
	toaster (4 slice)	1.5	\$0.45
	toaster oven (cooking)	1.5	\$0.45
۲	waffle iron	1.2	\$0.36
	item	monthly kWh use	monthly cost
	dishwasher		
	based on 18 loads per month		
	standard (1997)	54	\$16.20
	standard (2010)	30	\$9.00
	ENERGY STAR® (2010)	25	\$7.50
	range (oven)		
	self-cleaning (1997)	63	\$18.90
	self-cleaning (2010)	44	\$13.20
I			

hourly = 12 hours monthly

kitchen continued	item	monthly kWh use	monthly cost
	refrigerator		
	side-by-side (1997)	75	\$22.50
	top-mounted (1997)	55	\$16.50
	side-by-side (ENERGY STAR - 2010)	43	\$12.90
	bottom-mounted (ENERGY STAR - 201	0) 38	\$11.40
	top-mounted (ENERGY STAR - 2010)	32	\$9.60
	"top-mounted" = freezer on top, "bottom-mounted" = freez	zer on bottom	
	water cooler		
	cold only	15	\$4.50
	hot/cold	19	\$5.70
۲	wine cooler	25	\$7.50
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
۲	receiver		
	200W	0.2	\$0.06
	600W	0.6	\$0.18
	1000W	1.0	\$0.30
۲	stereo	0.1	\$0.03
۲	sub woofer	0.2	\$0.06
	item	monthly kWh use	monthly cost
۲	aquarium	19	\$5.70
۲	television based on television on for 5 hrs/day		
	projection tv (65")	32	\$9.60
	CRT (old style tv – 30" - 36")	20	\$6.00
	light emitting diode (LED - 46")	16	\$4.80
	liquid crystal display (LCD - 42")	15	\$4.50
	plasma (42")	15	\$4.50
I	lourly 🛑 12 hours 🔵 monthly		3

	item	monthly kWh use	monthly cost
	television boxes		
	PVR (1 hr/day)	27	\$8.10
	digital cable with PVR	36	\$10.80
	(4hrs/day – TV, 1 hr/day – recording)		
	digital cable (5 hrs/day)	19	\$5.70
	satellite with PVR	21	\$6.30
	(4hrs/day – TV, 1 hr/day – recording)		
	satellite (5 hrs/day)	12	\$3.60
•	video game console based on video game console on for 5 hrs/day		
	PlayStation 3 [®]	30	\$9.00
	Xbox 360 [®]	28	\$8.40
	Nintendo Wii®	3	\$0.90
bedroom			
	item	kW per hour use	hourly cost
	electric blanket	0.2	\$0.06
	electric heating pad	0.06	\$0.02
	item	monthly kWh use	monthly cost
	alarm clock	3.6	\$1.08
bathroom	item	kW per hour use	hourly cost
	curling iron	. 0.08	\$0.02
	flat iron	0.14	\$0.02
	hair dryer	1.8	\$0.54
	jetted tub	0.8	\$0.24
	shaver (charging)	0.003	<\$0.01
	toothbrush (charging)	0.002	<\$0.01



laundry

office

	item		bourby agent
		kW per hour use	hourly cost
	iron	1.1	\$0.33
	steamer	1.4	\$0.42
	item	monthly kWh use	monthly cost
	clothes dryer		
	based on 35 loads per month	76	\$22.80
	washing machine based on 33 loads per month		
	top load (1997)	78	\$23.40
	top load (2010)	33	\$9.90
	front load (ENERGY STAR - 2010)	13	\$3.90
	item	kW per hour use	hourly cost
	cell phone charger	0.003	<\$0.01
	computer printer		
	ink jet printer (printing)	0.08	\$0.02
	ink jet printer (idle)	0.02	<\$0.01
	laser printer (printing)	0.5	\$0.15
	laser printer (idle)	0.03	<\$0.01
	computer speakers	0.004	<\$0.01
	cordless phone	0.002	<\$0.01
	cordless phone (with answering mach	ine) 0.004	<\$0.01
	item	monthly kWh use	monthly cost
۲	computer & LCD monitor in use for 2 hours per day, <u>in sleep mode</u> for 22 hours pe	r day	
	monitor	2	\$0.60
	computer	11	\$3.30

in use for 2 hours per day, off for 22 hours per day

monitor	2	\$0.60
computer	5	\$1.50

hourly 🛑 12 hours 🔵 monthly

lighting

	item	12 hour kWh use	12 hour cost		
	compact fluorescent light (CFL) bulb				
	15W (replaces 60W incandescent)	0.18	\$0.05		
	25W (replaces 100W incandescent)	0.3	\$0.09		
	40W (replaces 150W incandescent)	0.48	\$0.14		
	fluorescent tube lighting				
	15W	0.18	\$0.05		
	75W	0.9	\$0.27		
	halogen lighting				
	50W	0.6	\$0.18		
	150W (exterior floodlight)	1.8	\$0.54		
	holiday lighting				
	string of incandescent (50 bulbs/str	ing) 3.0	\$0.90		
	string of LED (70 bulbs/string)	0.04	\$0.01		
•	incandescent light bulb				
	60W	0.72	\$0.22		
	100W	1.2	\$0.36		
	150W	1.8	\$0.54		
•	light emitting diode (LED)				
	10.5W (replaces 50W incandescent)	0.13	\$0.04		
	night light				
	incandescent	0.06	\$0.02		
	LED	0.004	<\$0.01		

continued	item	kW per <mark>h</mark>	our use	hourly cost
	humidifier	-		
	portable	0.	06	\$0.02
	on furnace	0.	01	<\$0.01
	vacuum cleaner			
	portable	0.	7	\$0.21
	central	1.	4	\$0.42
	item	monthly	(Wh use	monthly cost
۲	air freshener	1.		\$0.54
	space heater			
	1000W for 6 hrs./day	, 18	0	\$54.00
	1000W for 24 hrs./da	ay 72	20	\$216.00
	1500W for 6 hrs./day	27	70	\$81.00
	1500W for 24 hrs./da	ay 10	80	\$324.00
	2500W for 6 hrs./day	45	50	\$135.00
	2500W for 24 hrs./da	ay 18	00	\$540.00
garage	item	kW per h	our use	hourly cost
	car block heater			
_	400W	0.4	Ļ	\$0.12
	600W	0.6	6	\$0.18
	By plugging in your block heat be substantial over the course	your cost savings could		
		4 hrs per day	12 h	ırs per day
	400W block heater	\$14.40/month	\$43	3.20/month
	600W block heater	\$21.60/month	\$64	I.80/month

garage continued	item	kW per hour use	hourly cost
	circular saw	1.2	\$0.36
	drill	0.3	\$0.09
	garage door opener	0.4	\$0.12
	jigsaw	0.3	\$0.09
	sander	0.3	\$0.09
	snow blower	1.2	\$0.36
•	table saw	1.4	\$0.42
outdoor	item	kW per hour use	hourly cost
	edger	0.5	\$0.15
Ĩ	hedge trimmer	0.3	\$0.09
•	lawn mower	1.2	\$0.36
	item	monthly kWh use	monthly cost
	hot tub (300 gallons @ 41°C/106°F)		
Ŭ	water heating (indoor)	150	\$45.00
	water heating (outdoor)	225	\$67.50
	pumping (1/2 horsepower 8 hrs/da	ay) 132	\$39.60
	pumping (68% efficient continuous		\$118.50





northlandutilities.com

Helping Northerners make wise electricity choices