Home Electricity Use By Room - Estimated Averages

The table below shows average estimated opearting demand and use for various appliances and electronics in the home.

Test your specific appliances and electronics with the Home Energy Monitor Program (*fcgov.com/energy-monitor-program*).
Check out a monitor at Poudre River Public Library locations, just like a book.

Use the following equation to learn more about your specific home appliances and electronics:

Find the Watts (W) for your appliance or electronic (usually on the box, or on a product sticker or manual).	*Determine how long you typically run the appliance or use the electronic per use.*	*Divide the Watts by 1,000 and then multiply by the Hours.*
Watts	**Hours**	**(Watts/1,000) x Hours**

Appliance/Electronic	Average Operating Demand (W)	Average Run Time Per Use (hr)	Consumption Per Use (kWh)	Non-Summer (Oct-Apr) On-Peak (Per Use)	Non-Summer (Oct-Apr) Off-Peak (Per Use)	Summer (May-Sept) On-Peak (Per Use)	Summer (May-Sept) Off-Peak (Per Use)	Weighted Average On-Peak	Weighted Average Off-Peak
Bathroom									
Hair Dryer	1,500	0.2	0.3	$ 0.07	$ 0.02	$ 0.08	$ 0.02	$ 0.07	$ 0.02
Bathroom Fan	50	0.3	0.02	$ 0.004	$ 0.001	$ 0.004	$ 0.001	$ 0.004	$ 0.001
Heating and Cooling									
Central Air Conditioning	3,000	6	18	$ 3.25	$ 1.29	$ 4.27	$ 1.29	$ 3.68	$ 1.29
Electric Baseboards (per 12 ft, approx. 1 or 2 rooms)	2,100	6	13	$ 2.28	$ 0.90	$ 2.99	$ 0.90	$ 2.57	$ 0.90
Space Heater	1,510	6	9	$ 1.63	$ 0.65	$ 2.14	$ 0.65	$ 1.84	$ 0.65
Room Air Conditioning (Portable or Window)	1,000	6	6	$ 1.08	$ 0.43	$ 1.42	$ 0.43	$ 1.23	$ 0.43
Furnace Fan (for gas furnace)	500	6	3	$ 0.54	$ 0.21	$ 0.71	$ 0.21	$ 0.61	$ 0.21
Box Fan	100	2	0.2	$ 0.05	$ 0.01	$ 0.05	$ 0.01	$ 0.05	$ 0.01
Ceiling Fan	40	2	0.1	$ 0.02	$ 0.01	$ 0.02	$ 0.01	$ 0.02	$ 0.01
Holiday Decorations									
200 ft String of Large Bulbs (Incandescent)	1,400	4	6	$ 1.317	$ 0.401	$ 1.51	$ 0.40	$ 1.40	$ 0.40
10 Strings, Mini Lights (Incandescent)	410	4	2	$ 0.384	$ 0.117	$ 0.44	$ 0.12	$ 0.41	$ 0.12
Inflatable Holiday Decorations (Large)	200	4	1	$ 0.188	$ 0.057	$ 0.22	$ 0.06	$ 0.20	$ 0.06
200 ft String of Large Bulbs (LED)	190	4	1	$ 0.181	$ 0.055	$ 0.21	$ 0.05	$ 0.19	$ 0.05
10 strings, Mini Lights (LED)	50	4	0.2	$ 0.045	$ 0.014	$ 0.05	$ 0.01	$ 0.05	$ 0.01
Inflatable Holiday Decorations (Small)	50	4	0.2	$ 0.049	$ 0.015	$ 0.06	$ 0.01	$ 0.05	$ 0.01
Kitchen									
Electric Oven	1,800	1	2	$ 0.42	$ 0.13	$ 0.49	$ 0.13	$ 0.45	$ 0.13
Electric Stove Top	1,400	0.5	0.7	$ 0.16	$ 0.05	$ 0.19	$ 0.05	$ 0.17	$ 0.05
Toaster Oven	1,230	0.5	0.6	$ 0.14	$ 0.04	$ 0.17	$ 0.04	$ 0.15	$ 0.04
Pressure Cooker / InstaPot	1,200	0.5	0.60	$ 0.14	$ 0.04	$ 0.16	$ 0.04	$ 0.15	$ 0.04
Toaster	1,100	0.1	0.1	$ 0.02	$ 0.01	$ 0.02	$ 0.01	$ 0.02	$ 0.01
Microwave	1,090	0.1	0.1	$ 0.01	$ 0.00	$ 0.01	$ 0.00	$ 0.01	$ 0.00
Coffee Maker (Brewing)	1,000	0.1	0.1	$ 0.02	$ 0.01	$ 0.02	$ 0.01	$ 0.02	$ 0.01
Dishwasher	420	1	0.5	$ 0.11	$ 0.03	$ 0.12	$ 0.03	$ 0.12	$ 0.03
Crock Pot / Slow Cooker	200	6	1	$ 0.22	$ 0.09	$ 0.28	$ 0.09	$ 0.25	$ 0.09
Fridge	60	24	2	$ 0.15	$ 0.15	$ 0.17	$ 0.17	$ 0.16	$ 0.16
Laundry Room									
Electric Water Heater	4,500	2	9	$ 2.12	$ 0.64	$ 2.43	$ 0.64	$ 2.25	$ 0.64
Electric Clothes Dryer	2,790	1	3	$ 0.66	$ 0.20	$ 0.75	$ 0.20	$ 0.70	$ 0.20
Iron	1,100	0.1	0.1	$ 0.03	$ 0.01	$ 0.03	$ 0.01	$ 0.03	$ 0.01
Clothes Washer	300	1	0.3	$ 0.07	$ 0.02	$ 0.08	$ 0.02	$ 0.07	$ 0.02
Lighting									
Incandescent (per bulb)	60	3	0.2	$ 0.04	$ 0.01	$ 0.05	$ 0.01	$ 0.04	$ 0.01
CFL, 60 W Equivalent (per bulb)	20	3	0.05	$ 0.01	$ 0.003	$ 0.01	$ 0.003	$ 0.01	$ 0.00
LED, 60 W Equivalent (per bulb)	10	3	0.02	$ 0.005	$ 0.002	$ 0.01	$ 0.002	$ 0.01	$ 0.00
Living Room									
Video Game Console (Active Mode)	70	5	0.3	$ 0.07	$ 0.02	$ 0.09	$ 0.02	$ 0.08	$ 0.02
TV (Active Mode)	50	5	0.3	$ 0.05	$ 0.02	$ 0.07	$ 0.02	$ 0.06	$ 0.02
Audio Equipment	20	3	0.1	$ 0.01	$ 0.00	$ 0.02	$ 0.00	$ 0.01	$ 0.00
Cable Set-Top Box and/or DVR	20	24	0.5	$ 0.05	$ 0.05	$ 0.06	$ 0.06	$ 0.05	$ 0.05
Smart Speaker	3	24	0.1	$ 0.01	$ 0.01	$ 0.01	$ 0.01	$ 0.01	$ 0.01
Video Game Console (Off)	1	19	0.03	$ 0.003	$ 0.002	$ 0.003	$ 0.002	$ 0.00	$ 0.00
TV (Off)	0.3	19	0.01	$ 0.001	$ 0.0004	$ 0.001	$ 0.0004	$ 0.00	$ 0.00
Appliance/Electronic	Average Operating Demand (W)	Average Run Time Per Use (hr)	Consumption Per Use (kWh)	Non-Summer (Oct-Apr) On-Peak (Per Use)	Non-Summer (Oct-Apr) Off-Peak (Per Use)	Summer (May-Sept) On-Peak (Per Use)	Summer (May-Sept) Off-Peak (Per Use)	Weighted Average On-Peak	Weighted Average Off-Peak
Office									
Printer Laser)	250	0.3	0.1	$ 0.02	$ 0.01	$ 0.02	$ 0.01	$ 0.02	$ 0.01
Computer/Laptop	50	3	0.2	$ 0.04	$ 0.01	$ 0.04	$ 0.01	$ 0.04	$ 0.01
Printer (Inkjet)	10	0.3	0.004	$ 0.001	$ 0.0003	$ 0.001	$ 0.0003	$ 0.001	$ 0.0003
Router	10	24	0.2	$ 0.02	$ 0.02	$ 0.02	$ 0.02	$ 0.02	$ 0.02
Cell Phone	4	2	0.01	$ 0.002	$ 0.001	$ 0.002	$ 0.001	$ 0.00	$ 0.00
Other									

Appliance	Watts	Col A	Col B	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak
Hot Tub (Heating Water)	5,500	1	6	$ 1.29	$ 0.39	$ 1.49	$ 0.39	$ 1.37	$ 0.39
Electric Vehicle (Level 2 Charger - 6.6kW onboard charger)	6,600	4	23	$ 5.43	$ 1.65	$ 6.24	$ 1.65	$ 5.77	$ 1.65
Electric Vehicle (Level 2 Charger - 3.3kW onboard charger)	3,300	7	23	$ 3.81	$ 1.65	$ 4.93	$ 1.65	$ 4.28	$ 1.65
Electric Vehicle (Level 1 Charger)	1,400	17	24	$ 2.62	$ 1.70	$ 3.09	$ 1.70	$ 2.82	$ 1.70
Vacuum	560	1	0.6	$ 0.13	$ 0.04	$ 0.15	$ 0.04	$ 0.14	$ 0.04
Hot Tub (Keeping Water Warm)	260	24	6	$ 0.62	$ 0.62	$ 0.71	$ 0.71	$ 0.66	$ 0.66
Radon Fan	70	24	2	$ 0.15	$ 0.15	$ 0.18	$ 0.18	$ 0.16	$ 0.16

Please note that operating demand varies between ENERGY STAR® and non-ENERGY STAR products with approximate costs.

Operating demand may be much lower than the total wattage capacity for an appliance, depending on partial use or cycling of the appliance.

Prices for appliances and electronics with an average run time beyond the 4 to 5 daily on-peak hours are calculated with the corresponding off-peak price for the remaining hours (e.g., an appliance that runs 24/7, such as a refrigerator).

The average operating demand and run times were provided by a mix of the following sources:

City of Fort Collins Home Utility Use Estimator (spreadsheet file)	www.fcgov.com/utility-use-estimator
E Source	www.esource.com
U.S. Department of Energy (energy.gov)	www.energy.gov/energysaver/save-electricity-and-fuel/appliances-and-electronics/estimating-appliance-and-home
Energy Use Calculator	www.energyusecalculator.com/calculate_electrical_usage.htm
Xcel Energy	www.xcelenergy.com/staticfiles/xe-responsive/Billing%20&%20Payment/Understanding%20Your%20Bill/CO-Rate-Plans-Appliance-Load-Sheet.pdf
Other Sources and Energy Services Engineer Expertise	