

# Energy Use of Common Residence Hall Appliances

Fall 2023

Electronics	Active (watts)	Idle or Sleep Mode (watts)	Off (watts)
Desktop computer	60	5	~1
Computer Monitor - LCD 21"	20	2	~1
Inkjet Printer	20	5	~1
Laptop Charger	60	1	n/a
Cell Phone Charger	6	1	n/a
Tablet Charger	12	1	n/a
Wireless Router	7	n/a	n/a
Portable MP3 Speakers	23	3	~1
Alarm Clock	2	n/a	n/a
LED TV - 24"	40	n/a	~1
LED TV - 32"	55	n/a	~1
Playstation 4	145	90	10
Xbox One	115	70	20
Wii U	30	30	~1

Appliances	Active (watts)	Idle (watts)	Off (watts)
Keurig Coffee Machine	1300	8	2
Standard fridge - 1.7 cu ft (cube size)	30	n/a	n/a
Standard fridge - 4.5 cu ft (desk height)	33	n/a	n/a
EnergyStar fridge - 1.7 cu ft (cube size)	24	n/a	n/a
EnergyStar fridge - 4.5 cu ft (desk height)	26	n/a	n/a
Microwave	1500	n/a	3
Toaster	830	n/a	~1
Electric Range Stovetop	1500	n/a	2
Electric Oven	2000	n/a	2
Washing machine (hot/warm water)	4000	n/a	2
Washing machine (cold water)	300	n/a	2
Clothes dryer	3000	n/a	2
Hair dryer	1300	n/a	~1
Flat iron hair straightener	330	n/a	~1

Lighting	Incandescent Bulb (watts)	CFL Equivalent (watts)	LED Equivalent (watts)
Average lightbulb	60	15	8

Sources:	
American Council for an Energy-Efficient Economy - Miscellaneous Energy Loads in Buildings - ACEEE.org	
Department of Energy Usage Statistics - Energy.gov	
EnergyUseCalculator.com	
Various individual product usage statistics taken from their respective product pages	