

Lesson 1: Electricity Consumption Data

All data (sorted by card number)

I'm a Scientist
Decipher my data!



Card	Item	Wattage	Hours used per day	Daily consumption
01	Projector	150 W	5 hrs	0.75 kWh
02	Electric Fan	10–25 W	Winter: 0 hrs Summer: 8 hrs	Winter: 0 kWh Summer: ~0.1 kWh
03	Vacuum Cleaner	1000-1440	1 hr	~1.2 kWh
04	Television	Active: 120 W Standby: 0.5-5 W	1 hr	0.1 kWh
05	Air Conditioning	3500 W	Winter: 0 hrs Summer: 8 hrs	Winter: 0 kWh Summer: 28 kWh
06	Computer Server	420 W	24 hrs	10 kWh
07	Printer	Active: 400-700 W Standby: 3 W	Active: ~1 hr	~0.6 kWh
08	iPad	Charging: 12 W	4 hrs	0.05 kWh
09	Laptop Computer	Charging: 50 W	Awake: 5 hrs	0.25 kWh
10	Desktop Computer	Awake: 270 W Sleep Mode: ~60 W	Awake: 5 hrs	1.4 kWh (Awake)
11	Fan Heater	750-1100 W	Winter: 8 hrs Summer: 0 hrs	Winter: ~7.5 kWh Summer: 0 kWh
12	Fridge	35 W	24 hrs	0.8 kWh
13	Washing Machine	700 W	2 hrs/cycle	1.4 kWh/cycle
14	Microwave Oven	750–1100 W	1 hr	~0.9 kWh
15	Dishwasher	1200–1500 W	1.5 hrs/cycle	~2.1 kWh/cycle
16	Photocopier	Active: 110–290 W Standby: ~75 W	Active: 1hr Standby: 23 hrs	Active: 0.2 kWh Standby: 1.7 kWh
17	Kettle	2000 W	0.05 hrs/cycle	0.1 kWh/cycle
18	Wi-Fi Router	10 W	24 hrs	0.2 kWh
19	Ceiling Light	25 W	8 hrs	0.2 kWh
20	Electric Stove	2000 W	2 hrs	4 kWh

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Data sorted by wattage

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Card	Item	Wattage
5	Air Conditioning	3500 W
17	Kettle	2000 W
20	Electric Stove	2000 W
15	Dishwasher	1350 W
3	Vacuum Cleaner	1220 W
14	Microwave Oven	925 W
11	Fan Heater	875 W
13	Washing Machine	700 W
7	Printer (Active)	550 W
6	Computer Server	420 W
10	Desktop Computer (Active)	270 W
16	Photocopier (Active)	200 W
1	Projector	150 W
4	Television (Active)	120 W
16	Photocopier (Standby)	75 W
9	Laptop Computer	50 W
12	Fridge	35 W
10	Desktop Computer (Sleep Mode)	30 W
19	Ceiling Light	25 W
2	Electric Fan	17.5 W
8	iPad	12 W
18	Wi-Fi Router	10 W
7	Printer (Standby)	3 W
4	Television (Standby)	3 W

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Data sorted by average daily consumption

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<i>Card</i>	<i>Item</i>	<i>Avg. Daily Consumption</i>
5	Air Conditioning	28.0 kWh
6	Computer Server	10.1 kWh
11	Fan Heater	7.0 kWh
20	Electric Stove	4.0 kWh
15	Dishwasher	2.0 kWh
16	Photocopier (Standby)	1.7 kWh
13	Washing Machine	1.4 kWh
10	Desktop Computer (Active)	1.4 kWh
3	Vacuum Cleaner	1.2 kWh
14	Microwave Oven	0.9 kWh
12	Fridge	0.8 kWh
1	Projector	0.8 kWh
7	Printer (Active)	0.6 kWh
9	Laptop Computer	0.3 kWh
18	Wi-Fi Router	0.2 kWh
16	Photocopier (Active)	0.2 kWh
10	Desktop Computer (Sleep Mode)	0.2 kWh
19	Ceiling Light	0.2 kWh
2	Electric Fan	0.1 kWh
4	Television (Active)	0.1 kWh
17	Kettle	0.1 kWh
7	Printer (Standby)	0.1 kWh
8	iPad	< 0.1 kWh
4	Television (Standby)	< 0.1 kWh