



How Much Energy Do My Appliances Use?

Energy is an inescapable expense for all businesses. But have you ever wondered how much each appliance is costing you? Saving electricity (and money) is always easier when you know how much you're actually using.

How to calculate the amount of energy used by each appliance

$$\text{Power rating in kW} \times \text{hours used per day}$$

How to calculate the energy cost of each appliance

$$\text{kWh per day} \times \text{unit cost} = \text{electricity cost per day}$$

For example...

Fridge
150 watt
↓
Energy unit cost
= 12.5p/kWh
↓
24 hours per day

150kWh = 0.15kW
0.15kW x 24 hours = 3.6kWh
3.6kWh x 12.5p = 45p per day

Total = £164.25 a year

How Much Energy Do My Business Appliances Use?

Common appliances and their typical power ratings and cost*

*Based on an average unit cost of 12.5p/kWh

Server

1000 watts = 1kWh
On 24hrs per day
= £3 per day
= £1095 per year

Desktop Pc

100 watts = 0.1kWh
On 8hrs per day
= 10p per day

Laptop

50 watts = 0.05kWh
On 8hrs per day
= 5p per day

Microwave Oven

1kW per use
= 12.5p for every ready meal

Air Conditioner

4000 watts = 4kWh
On 8hrs per day = £4 per day

Kettle

0.11kWh to heat 1 litre of water
= 1.4p for 4 cuppas

Large Screen TV

170 watts = 0.17kWh
On 8hrs per day
= 17p per day

Light Bulb

60 watt = 0.06kWh
On 8hrs per day
= 6p per day

Tips to save on electricity

- > Turn off appliances completely when not in use - don't leave them in standby mode.
- > Only boil the amount of water you need in the kettle.
- > Switch to low energy light bulbs.
- > If you're buying a new appliance, look for one with an 'A' rating for energy efficiency
- > Switch energy suppliers to avoid paying more than you need to.
- > Switch from desktops to laptops.

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Sources:

<https://www.nimblefins.co.uk/how-much-electricity-does-appliance-use#nogo>

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