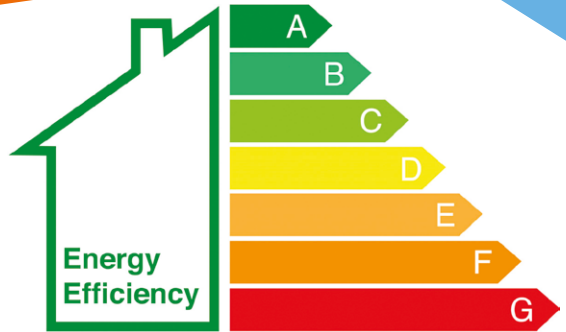# RUNNING COST GUIDE

Understanding how much it costs to run your household appliances will help you to reduce your energy bill.

How to work out the amount of energy used

To calculate the amount of energy used by each appliance you need to take the power rating of the appliance in kW (1000W = 1kW) and multiply it by the number of hours used. This will give you the kWh.

Power rating in kW x hours used per day = kWh

How to calculate the energy cost of each appliance

In order to calculate the cost you need to multiply the kWh by the unit cost (you can find this on your energy bill).

kWh per day x unit cost = electricity cost per day

Examples

9kW electric shower and an energy unit cost of 34p/kWh.
Cost to have a 10 minute shower

- 9kW x 34p = £3.06
- 10 minutes = £3.06/6 - 51p
- 10 minute shower each day would cost **£186.**

3kW fan heater and an energy unit cost of 34p/kWh.
The fan runs 2 hours per day.

- 3kW x 2 hours = 6kWh
- 6 X 34p = **£2.04 per day**

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The following calculations are based on the average cost of electricity during October 2022, which is 34p per kWh.

These are examples of the type of the watt per appliance, do check the wattage for your appliance and the unit cost per kWh displayed on your electricity bill.

Appliance	Watt	kW	Cost for use	Annual Cost
De-Humidifier	700	0.7	20p per hour	Based on 4 hrs a day for 6mths £174
Dishwasher	1500	1.5	43p per load	Based on 1hr daily use = £186
DrySoon Heated Airer	283	0.283	8p per hour	Based on 36 hrs a week for 6mths = £90
Electric Blanket	100	0.1	3p per hour	Based on 8hr a night for 6 months = £50
Electric lawn mower	1800	1.8	51p per hour	Based on 1 hour per week for 8 months = £20
Electric shower	9000	9	43p per 10 minutes	Based on 1 10 min daily shower = £187
Electric Oven	2200	2.2	62p per hour	Based on 2 hrs daily = £546
Fridge freezer	38	0.03825	26p per day	£114 per year
Fridge	12	0.012	8p per day	£36 per year
Freezer	19	0.0195	14p per day	£58 per year
Games Console (Xbox)	142	0.142	16p per day (4 hours)	Based on daily use = £70
Fan heater (2kW)	2000	2	57p per hour	Based on 2 hrs a day for 6 months = £248
Hair Straighteners	75	0.075	2p per hour	Based on ½ hr daily = £5
Hairdryer	2300	2.3	33p per ½ hour	Based on ¼ hr daily = £71
Hot Tub (inflatable)	2200	2.2	£2.85 a day	Based on 6mths = £625
Immersion Heater	3000	3	85p per hour	Based on 2 hrs a day = £745
Iron	2800	2.8	79p per hour	Based on 2 hrs a week =£99
Kettle	3000	3	85p per hour	Based on 1 hr a week = £53
Laptop	42	0.042	1p per hour	Based on 5 hours a day, 5 days every week = £17
Microwave	1000	1	28p per hour	Based on 3 hrs a week = £53
Oil Filled Radiator	1500	1.5	43p per hour	Based on 2 hrs a day for 6mths = £186
Pond pump Large	350	0.35	£2.40 a day	Based on daily use = £1,042
Pond pump Medium	60	0.06	41p a day	Based on daily use = £179
Pond Pumps Small	18	0.018	12p a day	Based on daily use = £54
Pressure Washer	1800	1.8	51p per hour	Based on 1 hr a week = £32
Tumble Dryer	2500	2.5	71p per hour	Based on 2 hrs a week = £221
Vacuum Cleaner	750	0.75	21p per hour	Based on 2 hrs a week = £26
Vivarium Heat Lamps	100	0.1	42p a day (14 hrs)	Based on daily use = £174
Vivarium Heat Lamps	160	0.16	70p a day (14 hrs)	Based on daily use = £278
Vivarium Heat Mat	16	0.016	12p a day (24hrs)	Based on daily use = £48
Vivarium LED light	7	0.007	5p a day (24hrs)	Based on daily use = £21

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