

# Sandy Bay Electricity Costs Based on Tariff 1 Current Fixed Price Rate of £0.1638 Per Unit

## What is a Unit of Electricity?

Units of electricity measure the amount of energy that has been consumed at a property. Units of electricity are measured in kilowatt hours (kWh's) and one unit of electricity is equal to one kilowatt hour (kWh) of electricity used. Sandy Bay Management charge an amount in pence for each unit (or kWh) of electricity used.

## How are Units of Electricity Measured?

Electricity meters are relatively straightforward compared to gas meters. This is because the number displayed on your electricity meter is in kilowatt hours (kWh), or Units. Therefore, simply subtracting your old electricity meter reading from your current meter reading will tell you how many units you have used.

## What is a Unit of Electricity?

As explained previously, units of electricity are measured in kilowatt hours (kWh's). One unit of electricity is equal to one kilowatt hour (kWh) of electricity used. So, what is a kilowatt hour?

A kilowatt hour is equal to 1 kilowatt (or 1000 watts) of power being consumed continuously over a period of 1 hour. The amount consumed by an appliance or electrical item depends on the wattage of the appliance. The exact wattage figure should be displayed on your electrical appliances. Let's look at some examples below:

### Toaster (1000 Watts or 1 Kilowatt kW)

- A. Let start with an example of a toaster rated at 1000 Watts. 1000 watts is the same as 1 kilowatt (kW).
- B. Used for 1 hour, this toaster will therefore use 1000 watts (1 kilowatt) of electricity. That's **1 kilowatt** of electricity used over the period of **one hour**. This is a Kilowatt Hour, or a Unit.
- C. You will therefore be charged for 1 unit of electricity on your energy bill. At a rate of £0.1638 pence per unit, you will incur a £0.1638 charge for using the toaster for 1 hour (**16.5 Pence**).

### Oven (2000 Watts or 2 kW)

- A. A typical electric oven may be rated at around 2000 watts, or 2 kilowatts (2 kW)
- B. Used for 1 hour, the oven will use 2 kilowatts or power, or 2 units.
- C. Charged at £0.1638 pence per Unit, you will be charged £0.3276 for using the oven for 1 hour (**0.33 Pence**).
- D. Alternatively, this could be viewed as using **1 unit of electricity every half an hour**.

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## Regular Halogen Light Bulb (60 Watts)

- A. Regular light bulbs (the non-energy efficient types), typically use between 40 watts and 60 watts of power. A higher wattage will mean a brighter bulb. In this example, we will look at bulb with a power consumption of 60 watts.
- B. 60 watts of power is equal to 0.06 kilowatts. ( $60 / 1000 = 0.06$ )
- C. Used for one hour this will therefore consume 0.06 kilowatts, the same as 0.06 units of electricity.
- D. 0.06 units charged at 0.1638 pence per unit = £0.0072 pence. That's just less than 1 pence for an hour of use. ( $0.06 \times 0.1638 = £0.0098$ )
- E. This bulb would take **16.6 hours to use 1 unit** of electricity. ( $1 / 0.06 = 16.6$  hours)

## Energy Efficient LED Light Bulb (5 Watts)

- A. An energy efficient LED light bulb uses 5 watts of power (to produce the same light output as a 40-60 watt halogen bulb).
- B. 5 watts of power is the same as 0.005 kilowatts, or 0.005 units ( $5 / 1000 = 0.005$ ).
- C. The LED light bulb would use 0.00082 pence for an hour of use ( $0.005 \times 0.1638 = 0.00082$ ).
- D. You would have to use the 5W LED light bulb for **200 hours to use 1 unit** of electricity, compared with the 16.6 hours for a halogen bulb!!

## Sandy Bay Current Tariff 1 Electricity Charge

Unit Cost: £0.1638 (1.638 Pence)

VAT: 5.0%

### Examples:

10 units = $10 \times £0.1638$	450 units = $450 \times 0.1638$
Electricity Cost = £1.638	£73.71
VAT = £0.082	£3.686
Total Cost = £1.72	£77.40

**Please note: The information in this document is for advice only, the Sandy Bay Residents Association and Committee are not responsible for calculating your personal energy bill.**

**Acknowledgement to the Switch Energy Supplier Website for information. Unit cost updated to actual Sandy Bay unit cost at 23/09/2022.**