

How much electricity use can you get for \$1?



EnergyAustralia
LIGHT THE WAY

Ever wondered how your electricity is used by common household items?

What \$1 of electricity can get you, based on a sample of average EnergyAustralia usage costs as of September 2023*



See over for how we got to these figures.

We're here for you

- Visit energyaustralia.com.au/how-save-energy-your-home
- Chat energyaustralia.com.au/livechat
- Call 133 466

*The examples below assume a 37c/kWh usage charge, which is based on a simple average of EnergyAustralia's peak anytime (flat rate) residential usage tariffs for Flexi Plan, excluding discounts, in the areas we supply electricity (VIC, NSW, SA, QLD and ACT). Rate is current as of September 2023 and includes GST. Supply to property charges are excluded.

*Our figures are based on typical new appliances with energy consumption values sourced from the energyrating.gov.au calculator unless stated otherwise. Figures are indicative only and actual running costs of your appliances may vary due to factors including the age, size and model of the appliance, how it is used, where you live and the tariff(s) you pay for electricity usage. Customers with time-of-use or demand tariffs may be able to take advantage of cheaper rates by using appliances in off-peak periods.

Calculations



Kettle

Boiling 1.5L of water from temperature of 20c to 100c with a 2.2kW electric kettle would require 0.14 kWh or 5.2 cents per boil cycle. This equates to 19 boil cycles per dollar or about 114 cups of tea assuming 250ml of water per cup of tea. (canstarblue.com.au/boiling-kettle-costs-think)



Fridge

A 500L capacity fridge (350L fresh food, 150L freezer compartment) and 3 stars energy rating would use 464 kWh per year. This equates to 47 cents a day or 2 days of fridge use for a dollar[^].



Dishwasher

A dishwasher with 14 place setting capacity and 3 stars energy rating would require about 0.9 kWh per cycle, equates to \$0.332 per cycle or 3 dishwasher cycles for a dollar[^].



TV

A typical TV with screen size of 50" and 3 stars energy rating would require 147 watts to run per hour or about 5.4 cents per hour. This equates to 18 hours of TV time for a dollar. (energyrating.gov.au/calculator)



Laptop

A typical laptop would require about 15 to 60 watts to run. We've assumed 40 watts (mid-point value of the range) in our calculation, this equates to 67 hours of laptop usage for a dollar.



Desktop

A typical desktop PC would require about 95 to 280 watts to run, this includes an assumption of 30 watts for external monitor (3 stars rated 23"). We've assumed 190 watts (mid-point value of the range) in our calculation, this equates to 14 hours of desktop PC usage for a dollar.



Smart phone

To fully charge a typical phone with battery capacity of 3000mAh from 0% - 100% would require 11.4 watts or 0.3 cents, this equates to 237 charging cycle or 7 months of phone charging per one dollar (assuming 1 charge per day). (canstarblue.com.au/surprising-cost-charging-phone)



Incandescent lighting

An old-style incandescent light that produces 800 lumens would require 60 watts per hour. This equates to 45 hours of light time for a dollar. (energyrating.gov.au/industry-information/publications/light-bulb-buyers)



LED lighting

The equivalent LED light to produce similar lumens would require 8-12 watts an hour. Using the upper value of the range, this equates to 225 hours of light time for a dollar. (energyrating.gov.au/industry-information/publications/light-bulb-buyers)



Fan

A ceiling fan with a standard 48-52" blade and DC motor running on medium speed of 130-164RPM would require 15.4 kWh per hour to run or 0.57 cents per hour. This equates to 175 hours of fan usage for a dollar. (canstarblue.com.au/running-cost-ceiling-fans/)



Split heating and cooling system

A 3 energy stars rated split system with 4.2kW cooling capacity and 5.1kW heating capacity would cost \$0.396 an hour for cooling and \$0.496 an hour for heating. This equates to 3 hours of cooling or 2 hours of heating for a dollar. Calculation assumed 4.2kW split system is enough to cool or heat a medium sized room of 20-40 square metres. (choice.com.au/what-size-air-conditioner-do-i-need)



Washing machine

A 5kg capacity washing machine and 3 stars energy rating would require about 0.91 kWh per warm wash cycle, equates to \$0.337 per warm wash cycle or 3 warm wash cycles for a dollar[^].



Clothes dryer

A 4kg capacity clothes dryer machine with 3 stars energy rating would consume about 2.94 kWh per cycle, equates to \$1.087 per cycle or about 1 dry cycle for a dollar[^].