



Energy
Networks
Australia

\$1 of electricity gets me...



www.energynetworks.com.au

The examples above are based on a flat retail contract electricity tariff of 30c/kWh with no discounts. Figures will vary according to factors such as age and size of appliance as well as the actual tariff rate. Customers with smart meters or time-of-use plans or demand tariffs may be able to shift their electricity usage to take advantage of cheaper rates.

Most figures have been derived from the Government of South Australia's Energy Advisory Service website.

How we calculated ‘\$1 of electricity gets me...’

The examples we used in our ‘\$1 of electricity gets me...’ infographic illustrate what would be experienced by a typical consumer on a 30c/kWh flat retail contract electricity tariff. They are intended to provide an indication of what one dollar of electricity would typically buy.

Figures will vary according to factors such as age and size of appliance and tariff rate. The table below shows the assumptions we made in determining the figures we used. Data sourced from the **Government of South Australia’s Energy Advisory Service** website unless otherwise noted.



2 hours using a split system air-conditioner

Assuming a room size of 36m², heating would cost between 41-60 cents an hour and cooling would cost between 48-70 cents per hour. On this basis, we have assumed an average 50c an hour, giving two hours' use. Actual usage will depend on room size and age and capacity of the appliance.



20 hours use of a ceiling or portable fan

Run cost of two to five cents an hour depending on size. We have used the high end of this range to give 20 hours use.



55 hours of incandescent lighting or 550 hours of LED lighting

A 60-watt incandescent globe costs 1.8 cents per hour equating to almost 56 hours of use for one dollar. We have assumed the equivalent LED would use six watts an hour giving more than 550 hours use for one dollar. Actual usage will depend on the wattage of the globe.



20 hours of TV

Running cost between \$0.006/hour to \$0.14/hour. We have assumed a TV that costs five cents an hour to run. Actual usage will depend on the type and size of TV.



1 year of phone charging

The Ergon Energy website indicates that fully recharging your phone every day for 12 months will use 2kWh of energy. This equates to 60 cents a year which we have rounded up to a dollar.



15 minutes in the shower

The elements of heating website explains how to calculate the kW required to heat a volume of water in a particular time. We have assumed a nine-litre a minute showerhead and water heated 20 degrees over one hour. As such, the energy use of a 15-minute shower is just under a dollar (95 cents). The length of time will vary with the rate of water flow and water temperature.



5 front loader or 3 top loader 7kg washing cycles

A 7kg warm wash using a front load washing machine at a cost of 20 cents a wash and a top load washing machine at 31 cents a wash. The actual cost will vary with the type of machine, as well as its capacity, water usage and the chosen wash cycle.



3 dishwasher loads

A built-in 10-15 place setting dishwasher uses between 0.54 and 1.61kWh a load. We have assumed an average 1kW a load. Actual cost will depend on the capacity and energy efficiency of the dishwasher and wash cycle chosen.



Dries 1 to 2 medium loads of washing

A 6kg vented dryer at \$1.17 per load and a 6kg condenser dryer at 49 cents per load. The actual cost will depend on the capacity and energy efficiency of the dryer as well as the drying cycle chosen.



Around 18kms in an electric car

The fueleconomy.gov website gives ranges from 25 kWh/100 miles to 47 kWh/100 miles. We have used the Nissan Leaf with a fuel economy of 30 kWh/100 miles or 30kWh/161 kms. This equates to 5.6 cents a km or about 18 km for a dollar. Actual distance travelled varies with the make and model of car as well as the driving conditions.



160 slices of toast

An 800-watt two slice toaster used for three minutes would toast 40 slices of bread an hour for 30c, with a dollar equating to 166 slices of toast.



1 roast dinner

Assumption based on a 2.5kWh oven used for 80 minutes. How many roasts will depend on the size and type of meat, the cooking temperature and time as well as appliance efficiency.



2-3 days running a fridge

The annual running cost of a 400-499 litre capacity fridge is 495kWh. This equates to 41 cents a day or about 2.5 days of use for a dollar. Actual energy consumption will vary with the age and size of the fridge, as well as how it is used e.g. how often the doors are opened and closed.



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