

# Ten easy steps to energy efficiency

1. Install a low flow showerhead
2. Get rid of the second fridge
3. Use energy efficient light bulbs (CFLs)
4. Switch off lights when not required
5. Don't over heat or over cool rooms
6. Close doors and cover windows to minimise draughts
7. Wash clothes in cold water
8. Use the clothesline whenever the sun shines
9. Don't leave appliances on standby mode
10. Don't run your pool pump for too long

# Reducing your footprint is easy

If you feel your energy bill is higher than you'd like it to be, there are some simple steps you can take to make a big difference. And it's not just good news for your hip pocket, it's also good news for the environment. At EnergyAustralia we pride ourselves on being able to help Australians reduce their footprint on the environment by using less energy.

In this leaflet we'll show you how much energy each appliance is using so you can see which rooms in your home are costing you the most. You'll also find some easy household tips like installing energy efficient bulbs that use 80% less energy, last up to fifteen times longer and produce less greenhouse gas emissions than incandescent bulbs.

We hope you find the information in this leaflet helpful. If you have any questions visit [www.energy.com.au](http://www.energy.com.au)



**Knowing how to be energy efficient is important, but doing something about it makes all the difference.**

For other energy efficient ideas from EnergyAustralia visit [www.energy.com.au](http://www.energy.com.au)

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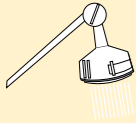


# Use less energy and help reduce your footprint.



# Energy usage guide

Use this guide to work out how much energy you are using in each room of your home.



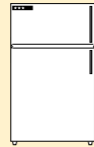
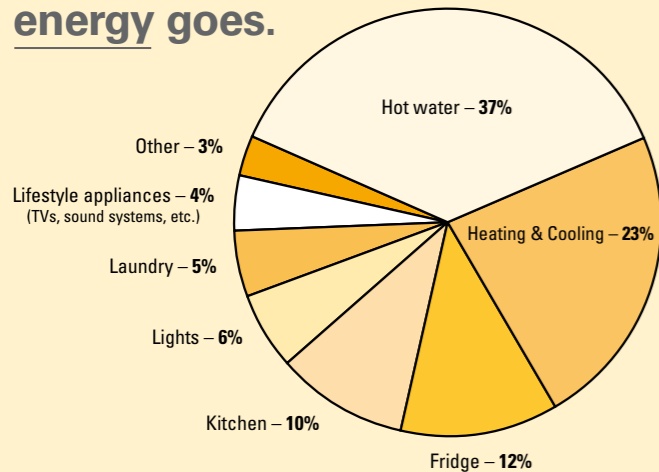
## Hot water

Hot water system type	Tariff	Cents/shower**	Quarterly (\$)***
Electric storage	Off peak 1	8.8c	\$48.00
	Off peak 2	14.1c	\$80.00
Electric quick recovery	Domestic all time	20.9c	\$91.00
Solar with electric boost	Off peak 2	4.9c	\$28.00
Heat pump	Off peak 2	4.9c	\$28.00
Gas storage	Natural gas	11.3c	\$60.00
Gas instantaneous	Natural gas	11.3c	\$60.00
Solar with gas boost	Natural gas	4c	\$21.00

\*\* Estimated for 5 minute shower  
\*\*\* Estimated for four person household

**TIP:** Switching to gas, solar or heat pump hot water can save you hundreds of dollars in energy bills over the lifetime of the system. Use a timer to help you shave a minute or two off your showers.

## Here's where your energy goes.

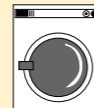


## Kitchen

Appliance	Size/type	Hourly (cents)	Typical hrs/quarter	Quarterly (\$)
Coffee machine		7.7c	50	\$3.85
Electric Cooktop	Large hotplate	28.3c	19	\$5.38
	Small hotplate	15.4c	19	\$2.93
Dishwasher*		16.3c	50	\$8.15
Freezer	200 litre	0.7c	2190	\$15.33
	400 litre	0.9c	2190	\$19.71
Electric Frypan		21.9c	50	\$10.95
Grill		25.7c	19	\$4.88
Juicer		3.9c	13	\$0.51
Kettle		30.9c	6	\$1.85
Microwave oven		12.9c	25	\$3.23
Electric Oven		27.0c	38	\$10.26
Refrigerator (new)	150 litre bar fridge	0.5c	2190	\$10.95
	400 litre	0.9c	2190	\$19.71
	500 litre	1.0c	2190	\$21.90
	650 litre	1.2c	2190	\$26.28
Refrigerator (20 years old)	400 litre	1.9c	2190	\$41.61
Rice cooker		9.0c	50	\$4.50
Toaster		12.9c	6	\$0.77
Electric Wok		25.7c	50	\$12.85

\*Where asterisk shown the figure in the hourly (cents) column is the **cost per cycle**

**TIP:** Fridges run all day so they are large consumers of electricity. Check that yours is running efficiently – it can make a big difference.

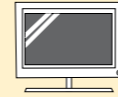


## Bathroom/Laundry

Appliance	Size/type	Hourly (cents)	Typical hrs/quarter	Quarterly (\$)
Bathroom light/heater unit	4 x 275W lamps	14.2c	25	\$3.55
Clothes Dryer*		45.6c	25	\$11.40
Hairdryer		19.3c	25	\$4.83
Heated Towel Rack		1.3c	260	\$3.38
Iron		12.9c	19	\$2.45
Spa		77.2c	75	\$57.90
Vacuum cleaner		15.4c	13	\$2.00
Washing machine* (warm wash cycle)		10.7c	100	\$10.70

\*Where asterisk shown the figure in the hourly (cents) column is the **cost per cycle**

**TIP:** Washing your clothes in cold water can reduce energy use by up to 90% when compared to a warm wash load. Front-load washing machines use less water than top-loaders, which means that on a warm wash they use less energy.



## Living room

Appliance	Size/type	Hourly (cents)	Typical hrs/quarter	Quarterly (\$)
Air conditioner^	Portable	19.3c	250	\$48.25
	Large wall	45.0c	250	\$112.50
Heater^	Ducted	77.2c	250	\$193.00
	Large fan/radiator	30.9c	150	\$46.35
	Large oil column heater	30.9c	150	\$46.35
	Underfloor heating - living room	46.3c	150	\$69.45
DVD		0.6c	125	\$0.75
Fan – ceiling^		1.2c	120	\$1.44
Fan – pedestal^		0.6c	120	\$0.72
Stereo System		0.3c	125	\$0.38
Television	Standard	1.0c	350	\$3.50
	Large flat screen LCD	1.9c	350	\$6.65
	Plasma	3.9c	350	\$13.65

^These costs are assumed for only two quarters per year

**TIP:** Gas heaters are cheaper to run and cause lower greenhouse gas emissions than electric heaters. Ceiling fans are the most energy efficient form of cooling. The temperature of a heated room in winter should be 18 - 21°C, and a cooled room in summer between 23 - 26°C.

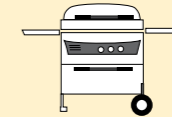


## Bedroom/Study

Appliance	Size/type	Hourly (cents)	Typical hrs/quarter	Quarterly (\$)
Clock Radio		0.02c	2190	\$0.44
Computer & monitor		1.3c	125	\$1.63
Electric blanket^		1.5c	168	\$2.52
Fax machine		0.1c	2100	\$2.10
Lights	Standard (75W incandescent)	1.0c	250	\$2.50
	Compact fluorescent (15W)	0.2c	250	\$0.50
	Tubular fluorescent (45W)	0.6c	250	\$1.50
	Halogen (50W down/spot)	0.8c	250	\$2.00
Printer		1.3c	25	\$0.33

^These costs are assumed for only two quarters per year

**TIP:** Choose energy efficient light globes. They use up to 80% less energy and last up to fifteen times longer than incandescent globes. Apply energy savings settings to computers and switch them off if you're not using them for extended periods.



## Outdoor

Appliance	Size/type	Hourly (cents)	Typical hrs/quarter	Quarterly (\$)
Aquarium pump		0.1c	2190	\$2.19
BBQ – electric		30.9c	6	\$1.85
Lawnmower		15.4c	13	\$2.00
Salt water chlorinator		3.9c	455	\$17.75
Pool heater^	Heat pump	193.1c	130	\$251.03
	Solar	7.1c	910	\$64.61
Pool pump		14.2c	455	\$64.61
Outdoor security light (150W)		1.9c	250	\$4.75
Lawn trimmer		4.5c	13	\$0.59

^These costs are assumed for only two quarters per year

**TIP:** Pool pumps make a big difference to energy bills. Make sure yours is the right size and that it runs on a timer. If you heat your pool, consider using solar pool heating and keep a cover on the pool when not in use. Don't leave outdoor security lights on all night or during the day – consider installing a timer or sensor.



**Things you should know.** The model, age and usage can all influence the final running costs of an appliance. These calculations are based on an average four person household based in the Sydney region, and are estimates only. Calculations may vary for other regions. Costs are based on EnergyAustralia's regulated retail domestic all time tariff for 2007-2008 for the first 1,750 kWh per quarter including GST. The cost does not include the service availability charge – this rate is listed on your bill.

