

# Boroondara Climate Action Plan

The Climate Action Plan will:

- Replace the Our Low Carbon Future Strategy.
- Bring our existing environmental sustainability commitments and actions into one plan.
- Define the direction we take in response to the challenges of climate change over the next decade.
- Inform our decisions regarding sustainability.



# Your feedback is important

[www.boroondara.vic.gov.au/waste-environment/  
sustainability/climate-action-plan](http://www.boroondara.vic.gov.au/waste-environment/sustainability/climate-action-plan)

Have your say about what you think should be included in the plan

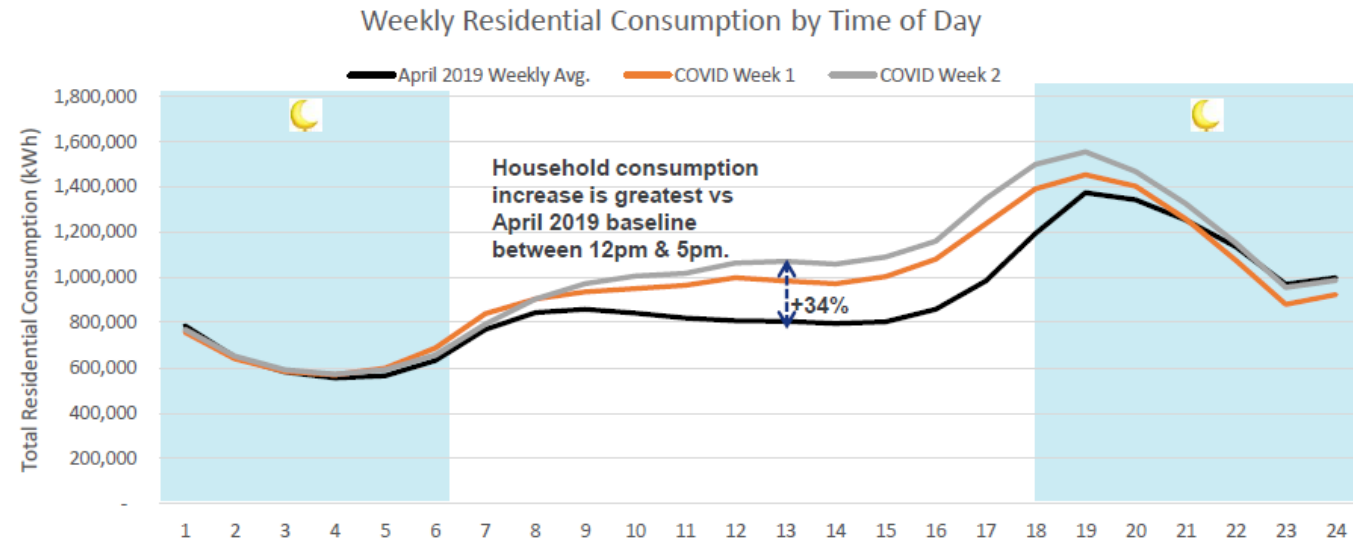
- Community consultation now open
- Closes Monday 14 September 2020



# How to Save Energy and Money while at Home

# Saving Energy in Unprecedented Times

- Australians are flattening the healthcare curve by studying and working from home
- However, we saw a 34% increase in energy usage in April
- How can we flatten the energy usage curve?



Source: Jemena





# How to Save Energy and Money While at Home

**Step 1.** Find the best energy deal

**Step 2.** Reduce your energy use with simple changes

**Step 3.** Do your solar research





# **Who is the Australian Energy Foundation**



The Australian Energy Foundation is leading the way to an equitable zero carbon society.

We are a for-purpose organisation whose work benefits all Australians.



# How we help you

From solar to insulation and everything in between, we help you with all areas of your home.

- We help you **understand how to make your home energy-efficient**
- **Provide trusted, independent advice** helping you make an informed decision





# How you're helping other people

We work with households facing energy poverty, helping them access renewable energy and energy-efficiency products to ensure they're not left behind in the energy transition.

Read more about our community projects [aef.com.au/projects/](https://aef.com.au/projects/)



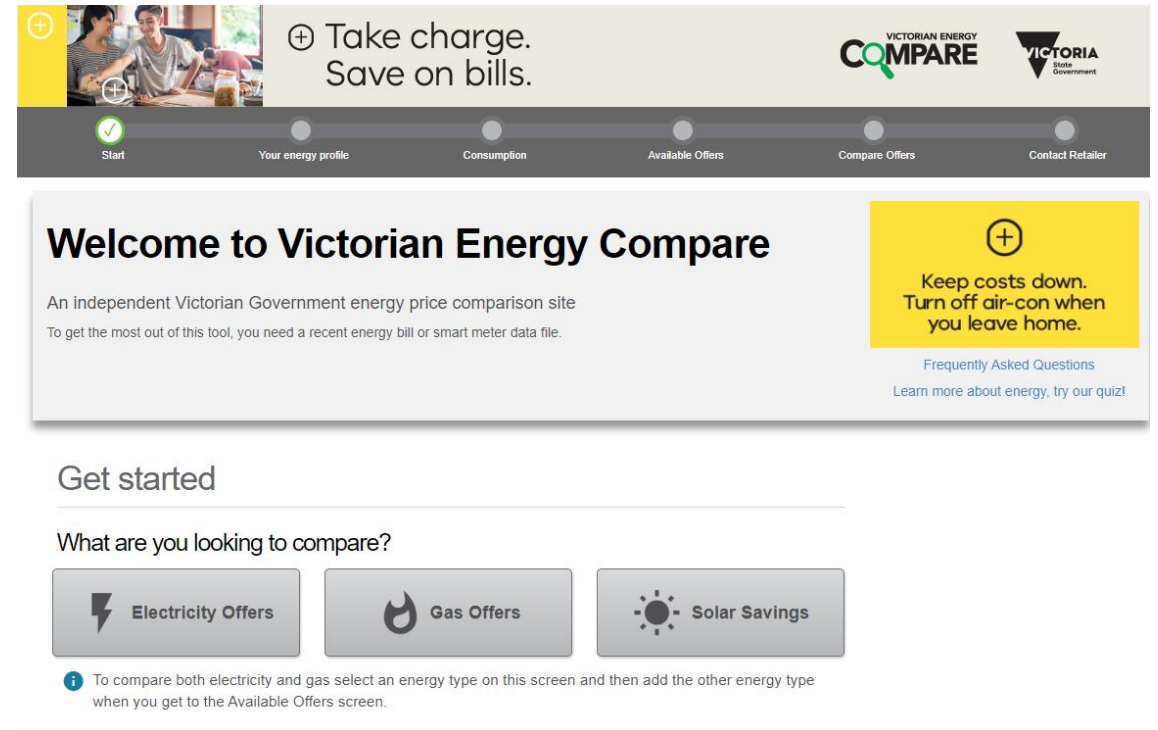
Step 1

**Find the best  
energy deal**

# Review your Retailer

Review your retailer:

1. Visit Victorian Energy Compare ([compare.energy.vic.gov.au](https://compare.energy.vic.gov.au))
2. Compare your current plan to other available plans
3. Consider switching plans and/or retailers to a better deal



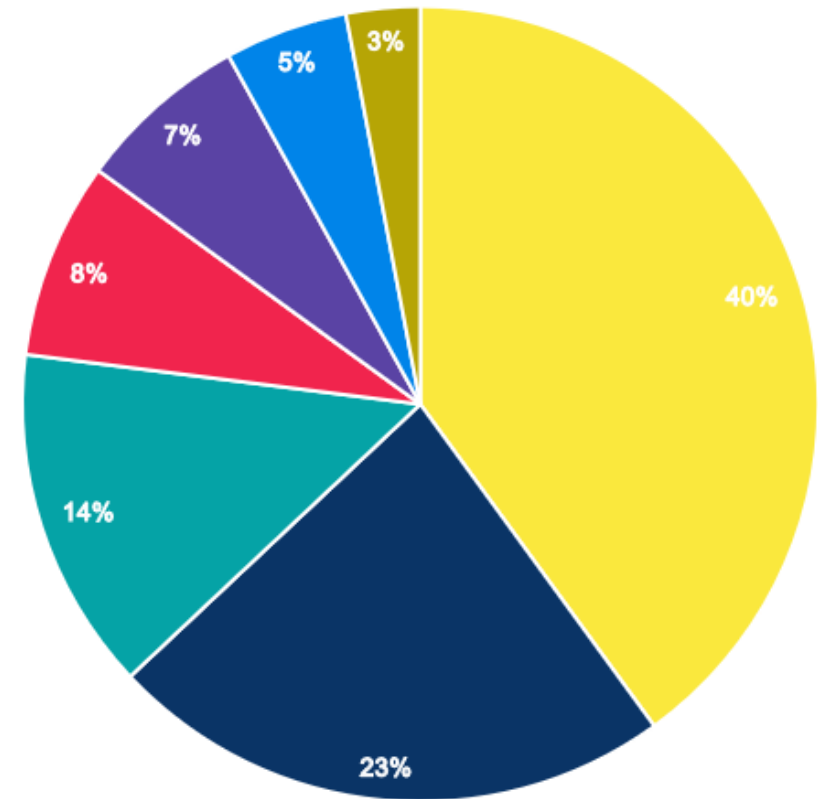
Step 2

**Reduce your energy  
use with simple  
changes**



# What area of your home uses the most energy?

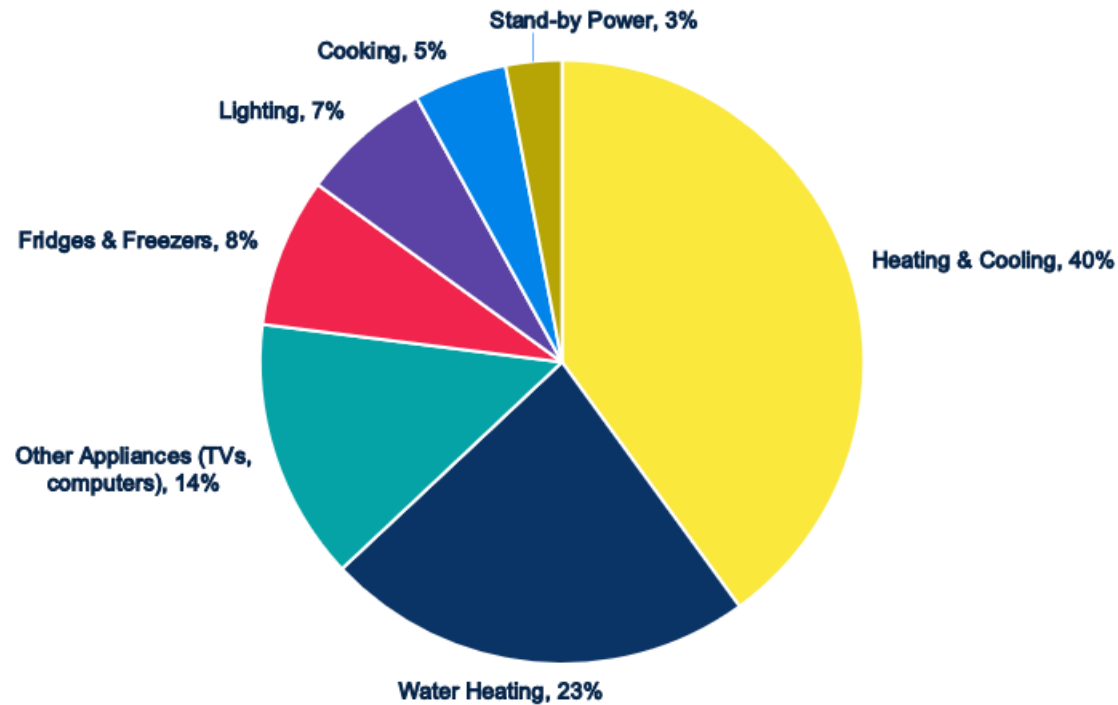
- Cooking
- Heating & Cooling
- Water Heating
- Other Appliances (TVs, computers)
- Fridges & Freezers
- Lighting
- Standby



Source: Australian Government



# Understand what to prioritise



Source: Australian Government

## Focus on:

1. Heating & Cooling (40%)
2. Hot Water (23%)
3. Home Appliances e.g TVs, Computers (14%)
4. Fridges & Freezers
5. Lighting
6. Cooking
7. Stand-by Power





# 1st Priority **Heating**



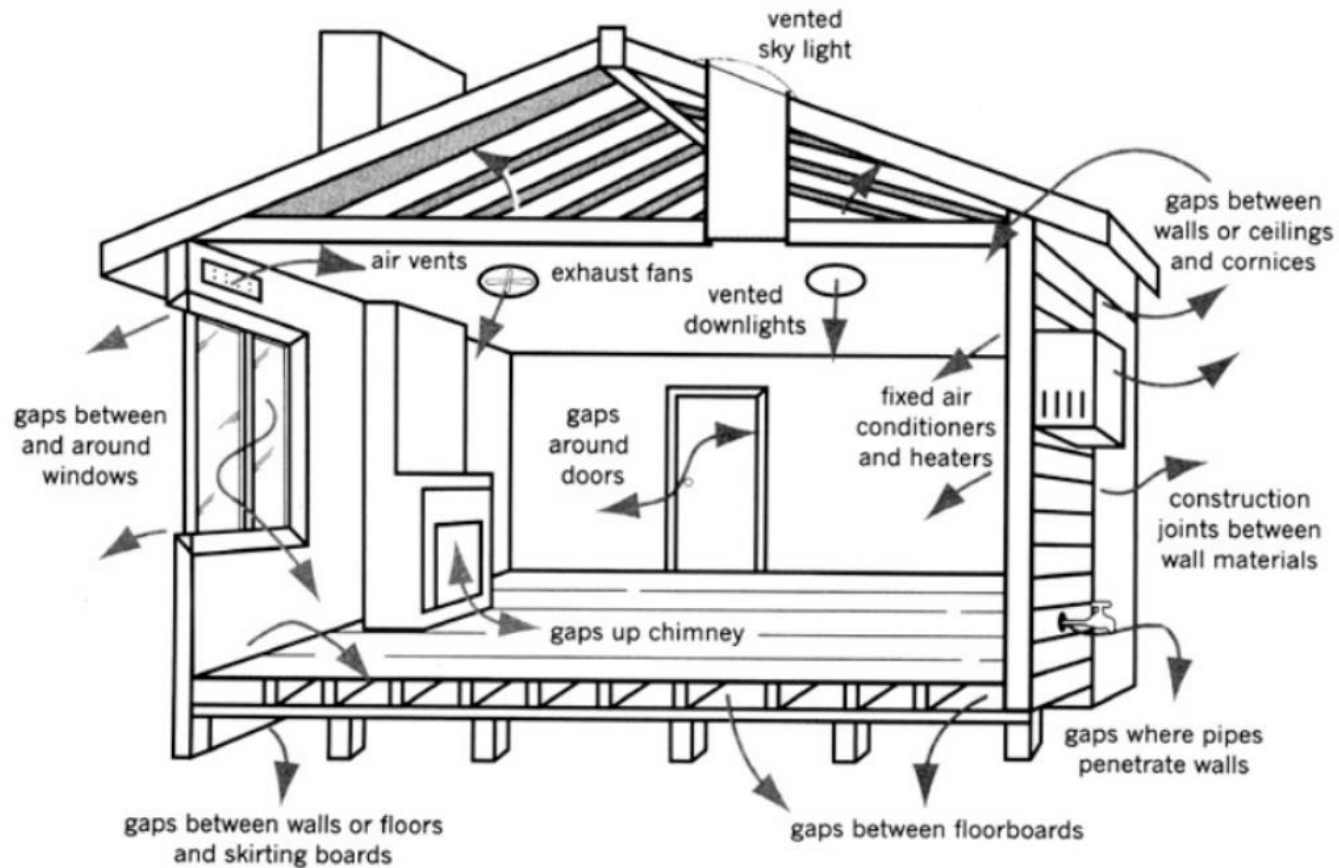
# Three ways to make your home warmer so you can use your heater less

1. Draught Proofing
2. Insulation
3. Window Coverings





# 1. Draught Proof Your Home



There are many products you can buy online to seal your home.



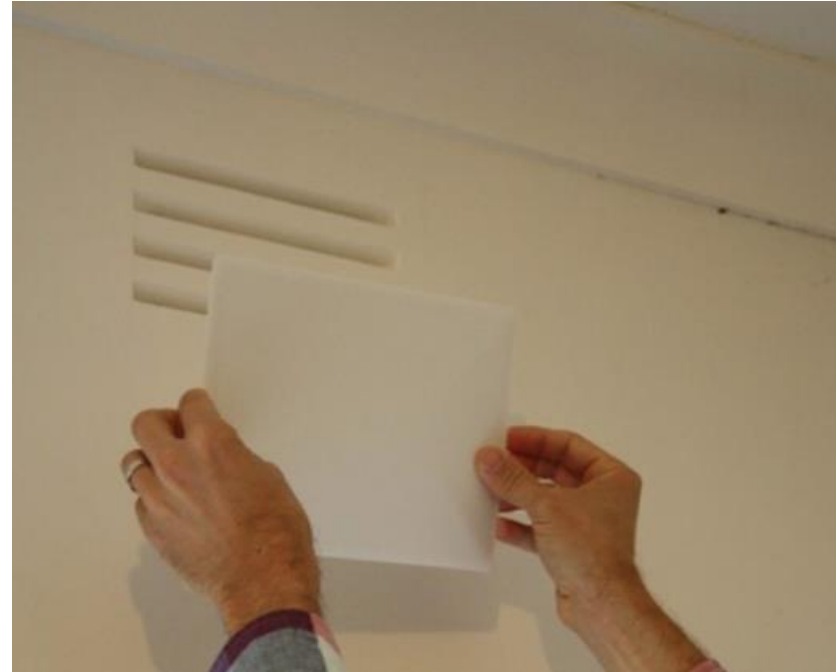
# Sealing Doors and Windows



Example of draught  
under door



# Air vents



<http://www.heatsaver.com.au/>

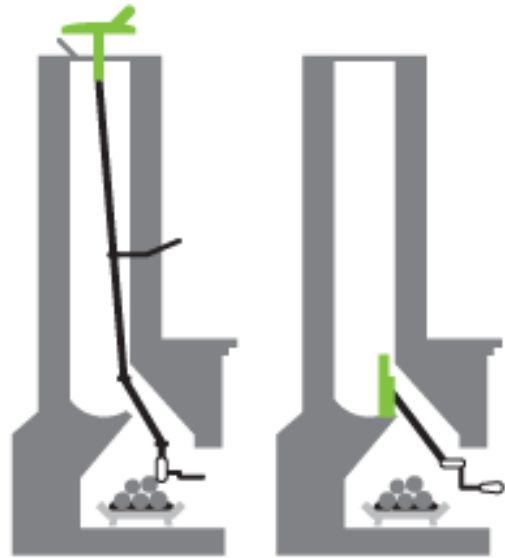


# Floor Boards





# Chimney



CHIMNEY DAMPERS



CHIMNEY BALLOON

Source: Sustainability Victoria



A chimney sheep to seal unused chimneys



# Plumbing and other gaps



## 2. Insulation

- Insulation can cut your **heating and cooling bills by 40-50%** and make your home warm in winter and cool in summer.
- If your home was insulated **before 2010**, chances are it doesn't have enough insulation or it's been moved out of place.





# Insulation Guide

Read our **Complete Guide to Home Insulation** to check if your home needs more insulation and how to choose the perfect type for your home.

**[aef.com.au/insulation/](https://aef.com.au/insulation/)**

A photograph of a construction worker wearing a blue long-sleeved shirt, blue jeans, a blue cap, and a white face mask. The worker is kneeling on a wooden floor joist and is in the process of installing a large, rectangular block of white insulation. The background shows the wooden framing of a building under construction.

**Your Complete Guide to Home Insulation**

How to Cut Costs in Comfort with Safe Home Insulation: A complete guide to determining if you need insulation and how to choose the right type for your home.

Visit [aef.com.au](https://aef.com.au) | Call 1300 23 68 55

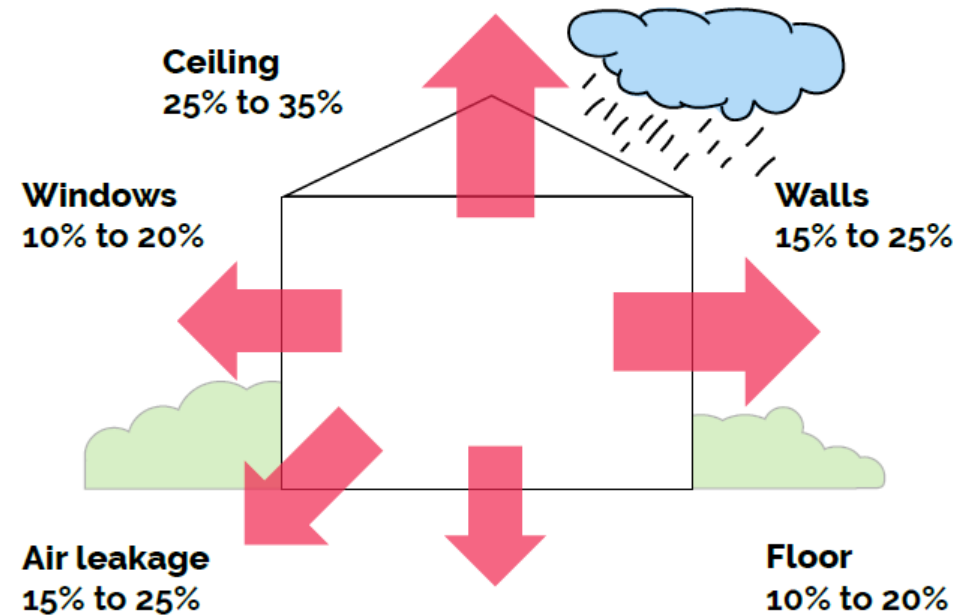




# 3. Window Coverings

After draught proofing and insulation, it's important to cover windows as **10-20% of heat loss** in winter occurs via windows

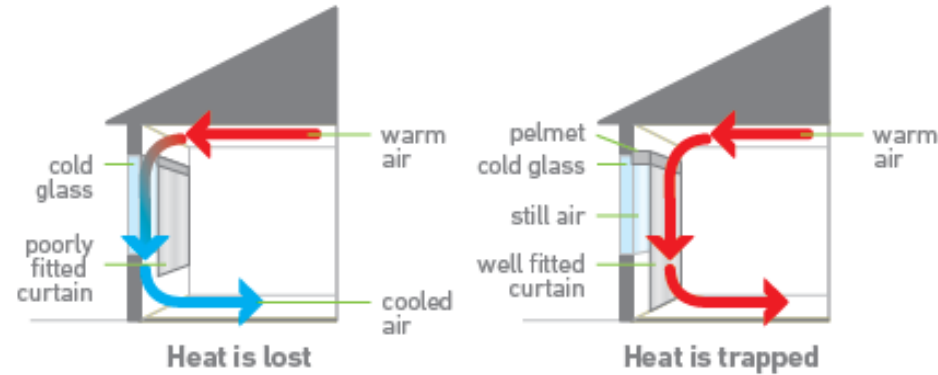
## Winter heat losses



# Simple Options for Window Coverings

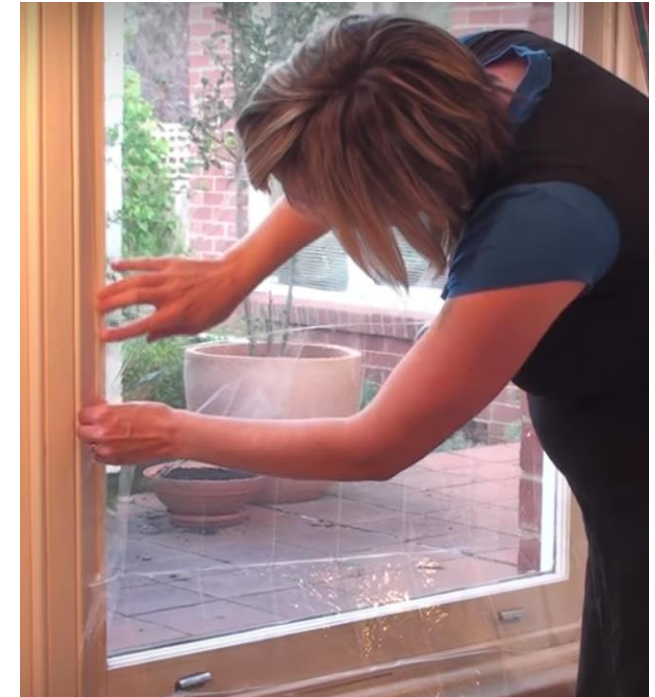


Thick Curtains that touch the floor with pelmets



## WINDOW COVERINGS

- Poorly fitted curtains lose heat
- Well fitted curtains with pelmet trap heat



Plastic Window Film



# Personal Heating: A variety of affordable products



Heated throw rugs  
and electric blankets  
\$30 - \$250



Heat pads  
\$15 - \$190



Heated clothing  
\$30 - \$200

Running costs:  
Approx. 3 cents per hour



# Options for Heating: What's cheapest to run?



Source: Ausgrid Heating Guide



# Heater Running Costs



52 cents per hour



73 cents per hour



31 cents per hour



52 cents per hour



52 cents per hour



**18 cents per hour**

Source: Ausgrid Heating Guide





# Good Heating Habits

- If you are heating the room, **only heat the room you are using**
- Heat to **18-20** degrees



Door curtains are an option for open-plan homes





2<sup>nd</sup> Priority  
**Hot Water**



# Simple tips to use less hot water

- Use a timer to take **4 minute showers**
- Upgrade to a **water-efficient showerhead**
- Use the **cold wash setting** on your washing machine



# Hot Water Heat Pumps

When it is time to replace your hot water system, consider replacing it with a **hot water heat pump**.

Use up to **80% less energy** than electric storage systems.





3rd Priority  
**Home  
Appliances**





# Main tips for TVs

1. Turn off your TV when no one is watching it. If you like to have background noise, consider turning on a **radio** instead.
2. Turn your TV off at the wall to ensure your TV doesn't use **standby power**.
3. Adjust the brightness on your TV, and check to see if it has an **energy saving function**.



# Main tips for computers

1. Use a **laptop** instead of a desktop computer – laptops are far more efficient
2. Switch off laptop chargers at the power point when fully charged
3. Adjust **screen monitor settings** (eg. lower your brightness, set to time out after 10 min of inactivity)
4. Shut down your computer when you are finished with it for the day





## 4th Priority **Fridges & Freezers**



# Tips for using your appliances more efficiently

1. Try and consolidate everything into one fridge, one freezer
2. Set your fridge to **3° to 4°**
3. Set your freezer to **-15° to -18°**
4. Check your fridge and freezer seals.







## 5<sup>th</sup> Priority **Lighting**





# A gradual progression towards efficiency



## **Incandescent**

Lots of heat  
not much light



## **Halogen**

A little less heat,  
more light



## **Compact fluorescent**

Less heat, lots of  
light



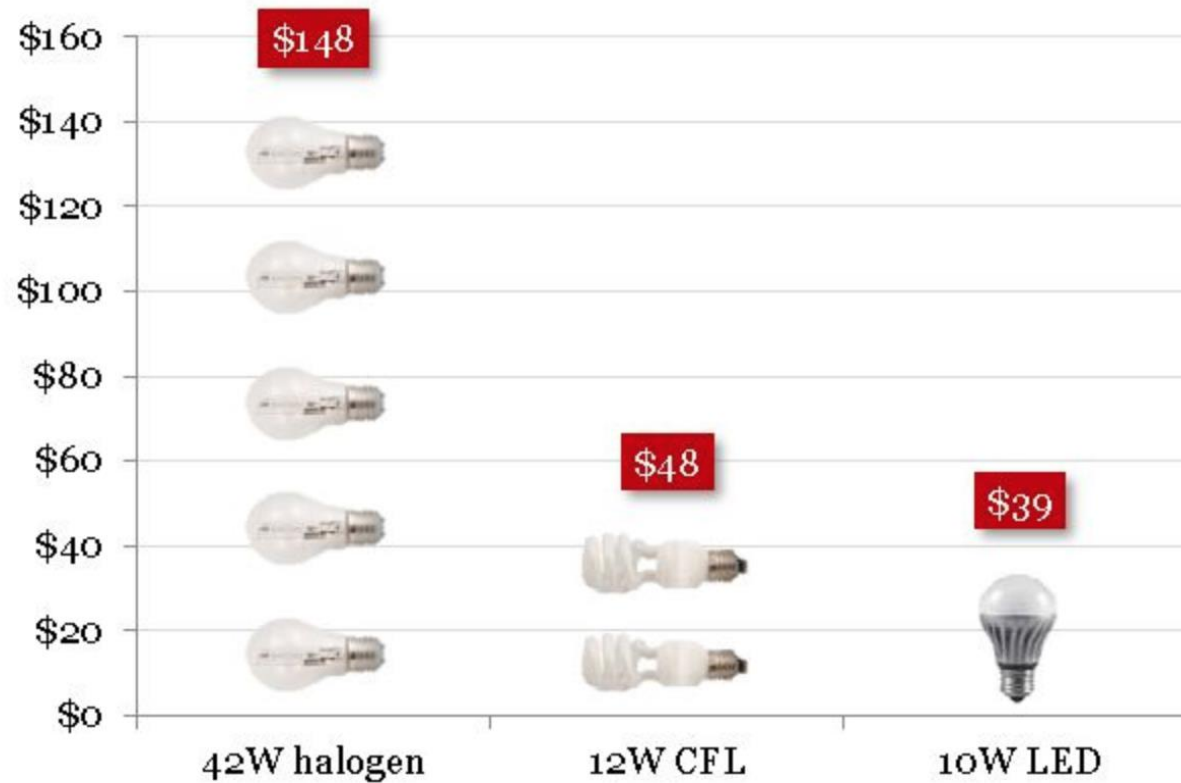
## **LED**

Even less heat,  
lots of light  
(finally)



# LEDs save you in the longer run

Lifetime cost over 10 years



Source: Energy Rating



# Light Bulb Savers App

- Helps you identify the best light bulbs to replace your incandescent and halogen bulbs – and how much you could save by transitioning to LED or CFL.





## 6th Priority **Cooking**





# Use smaller appliances

1. Use smaller appliances such as **microwaves**, **toasters**, **sandwich presses** and **kettles** rather than the stove or oven.
2. When using a kettle, boil only the water you need.



# Ovens and stovetops

1. When using the oven, use the **fan-forced** setting and consider making the most of the heated space by cooking multiple things at once.
2. Note that cooking appliances do not have energy star ratings. If purchasing a new oven, consider a fan-forced oven and **triple glazed doors** for the most energy efficient option. **Induction stovetops** are more efficient than gas cooking.





6th Priority

# Standby Power



# Standby Power

Also known as “phantom power”, standby could be costing you hundreds of dollars per year.

## **Appliances that use standby power:**

- Digital video recorders (DVRs)
- Wireless routers
- Printers
- Microwaves
- Smart speakers



# Tips for Standby Power

1. Switch all electrical items off at the wall when not in use
2. Buy a standby power remote or mains timer switch (\$10 - \$40)



Example of a standby power remote

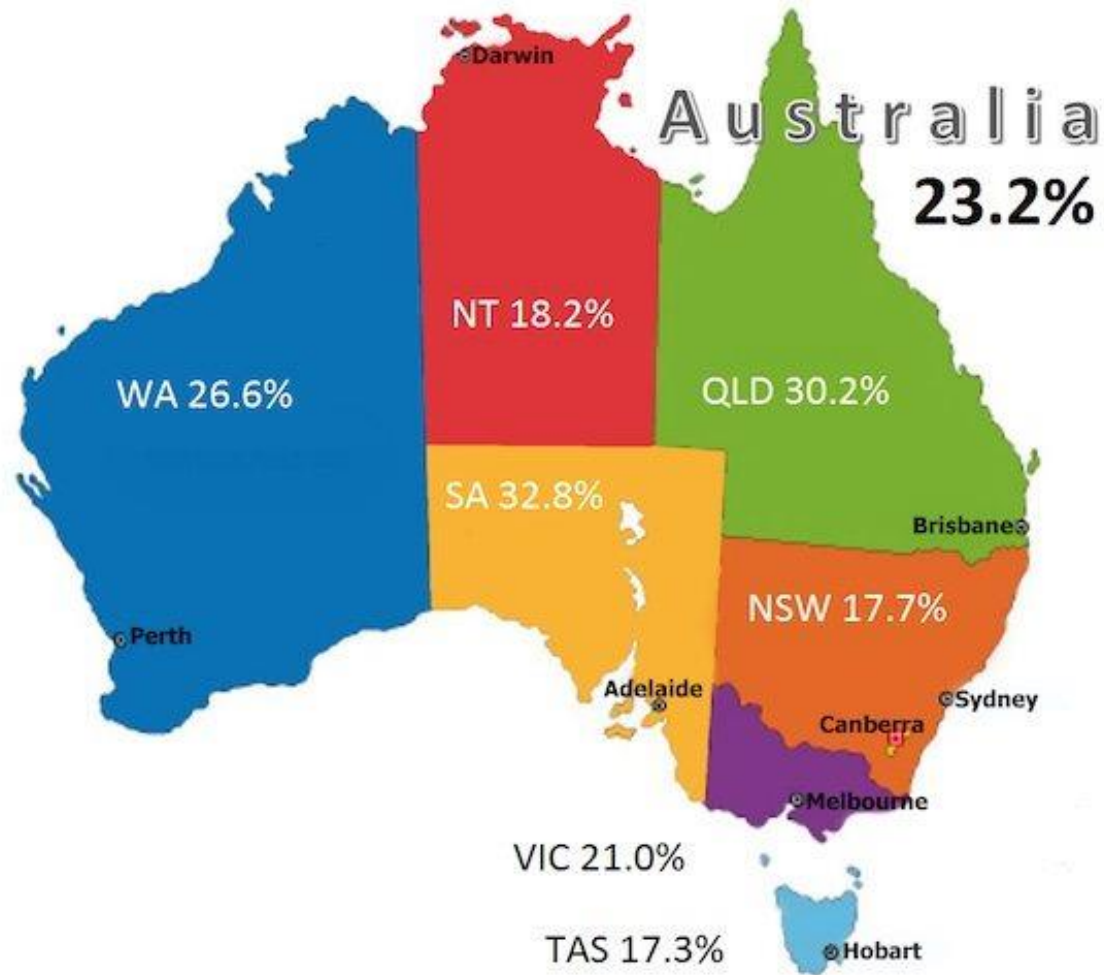




Step 3

# Do your solar research

# Australia is in a solar boom

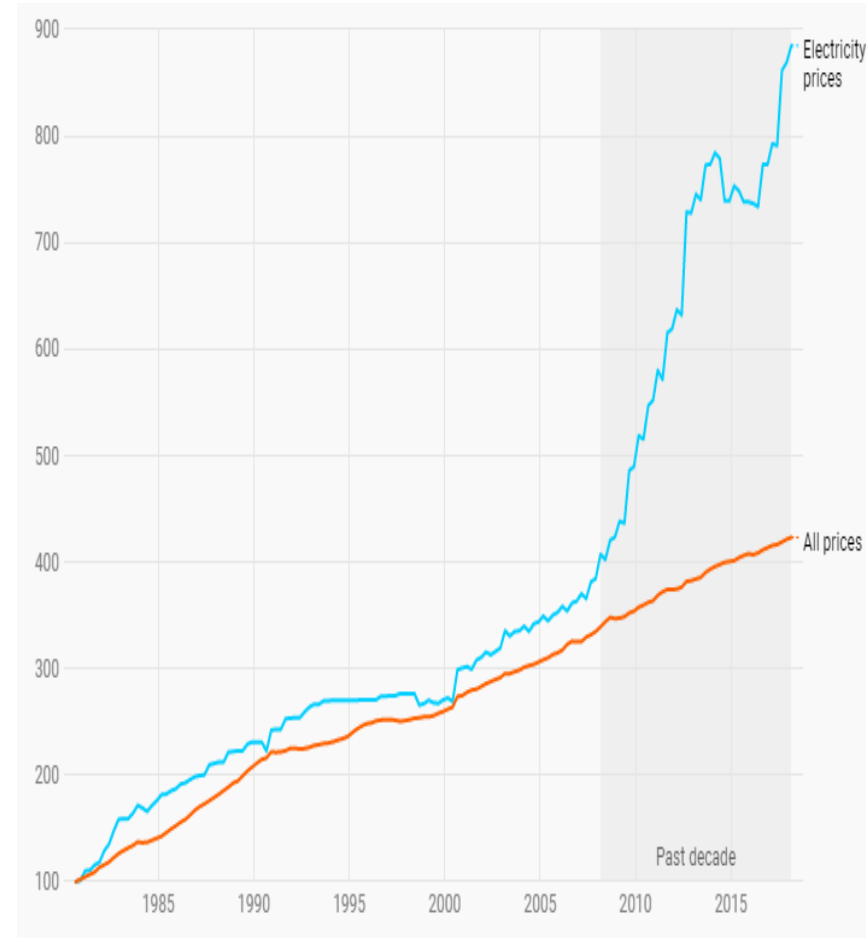
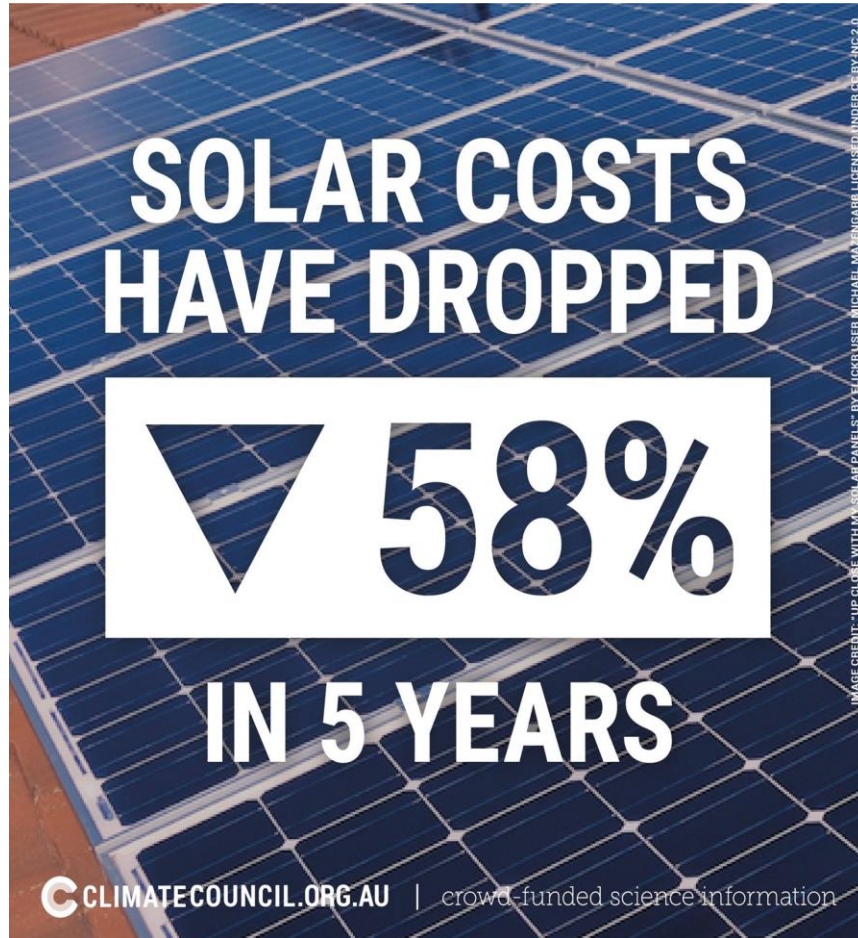


**2 million homes** now have solar power installed

Boroondara 10%

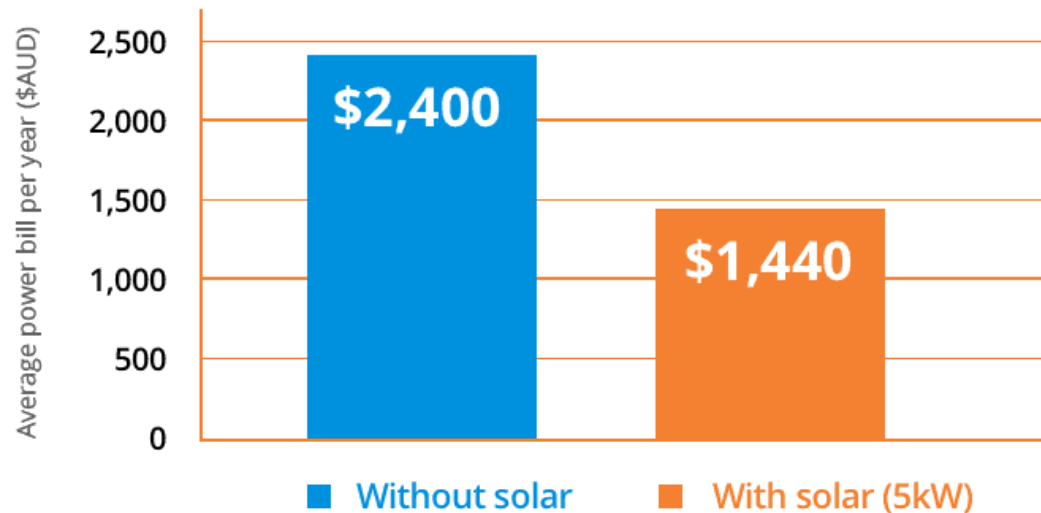


# Why has solar become so popular?



# Solar leads to great returns

Estimated Average Household Power Bill Per Annum  
(daily electricity use of 25kWh)



Source: Curtin University

Payback time is **3-7 years**

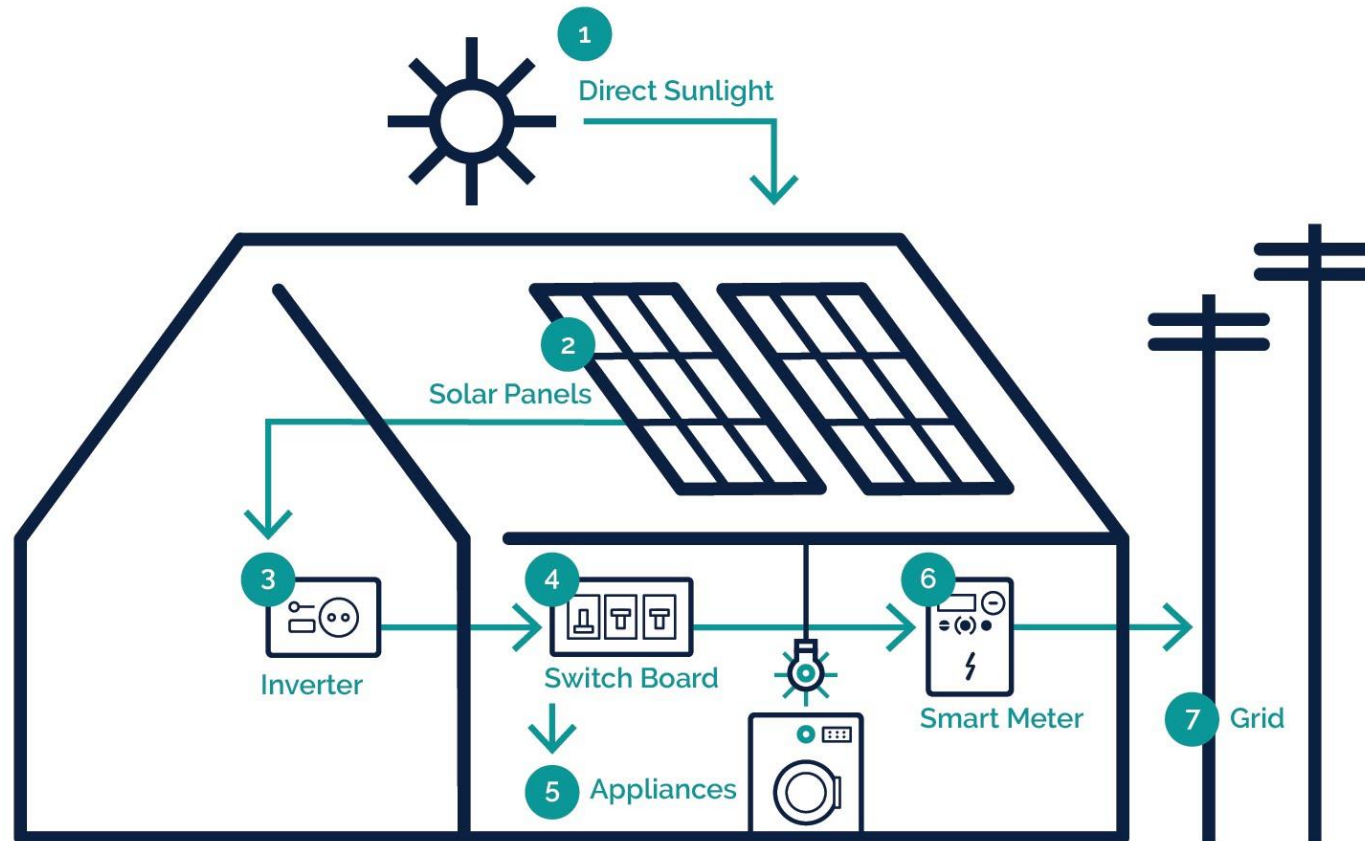
Will vary depending upon:

- Available sunlight
- Electricity prices
- Cost of system
- Amount of self consumption
- Positioning of the panels

Expect to save 30-60% off electricity bills with solar



# How Solar Works





# So how do I save money with solar?

1. By using your own electricity **generated for free** from the sun you will need to **buy less electricity** from your power company.
  - Self consumed solar energy is about 2-3x more valuable than exported solar
2. You **get paid** for the electricity (a feed-in tariff) that you send out to the grid.
  - Typical **feed-in tariff** is 12c per kWh



# Solar Rebates – VIC State Government

- A solar panel rebate up to **\$1850** or **50%** of price, whichever is lowest, for homeowners and rental properties
- An **interest-free loan** equivalent to the amount of rebate
- If your household income is below \$180,000, have a property valued at under \$3,000,000, and you're only claiming one rebate per household, you're eligible.

**[solar.vic.gov.au/solar-rebates](https://solar.vic.gov.au/solar-rebates)**



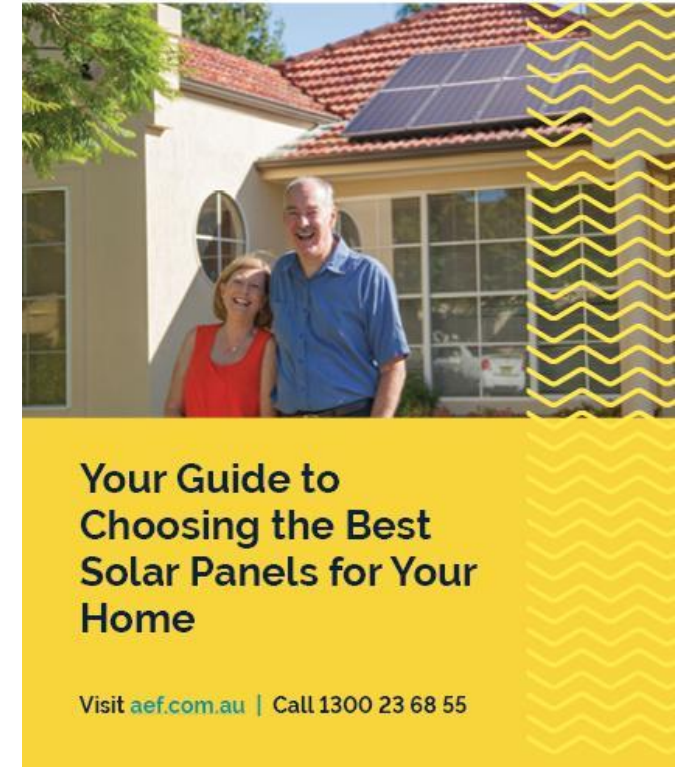
# Resource for further research

Read our Complete Guide to Solar Panels:

- Work out if solar is right for you
- Understand how to choose the right components

**[aef.com.au/solarpanels](http://aef.com.au/solarpanels)**

**[www.Boroondara.vic.gov.au/sustainability-events](http://www.Boroondara.vic.gov.au/sustainability-events)**





# Key Takeaways

# Key Takeaways

## **Step 1: Find the best energy deal**

Look at [compare.energy.vic.gov.au](https://compare.energy.vic.gov.au)

## **Step 2: Reduce your energy usage**

Focus on heating and cooling, followed by hot water, appliances, and lighting

## **Step 3: Do your solar research**

Take this opportunity of having plenty of time at home to look into your renewable energy options





# We're here to help

From solar to insulation and everything in between, we can help you with all areas of your home.

- Help you understand **how to make your home energy-efficient**
- **Provide trusted, independent advice** helping you make an informed decision



# Our Services

- Solar Panels
- Battery Storage
- Insulation & Draught-proofing
- LED lighting
- Hot Water Heat Pumps
- Reverse Cycle Air Conditioners
- Home Energy Assessments
- Window Film



# Book a 20 minute phone consultation

- Get your specific questions answered about anything energy-related
- Find out if solar is suitable for your home, using satellite imagery



# To talk to an energy advisor

Visit [aef.com.au](https://aef.com.au) or call  
**1300 23 68 55**



# Council sustainability resources

[www.boroondara.vic.gov.au/sustainability](http://www.boroondara.vic.gov.au/sustainability)



**BOROONDARA**  
*City of Harmony*



# Subsidised composters and worm farms

[www.compostrevolution.com/Boroondara](http://www.compostrevolution.com/Boroondara)



Join the  
**Compost Revolution**

Online composting and  
worm farming resource

Up to 40% off RRP on  
compost bins, bokashi bins  
and worm farms

Free delivery to your door

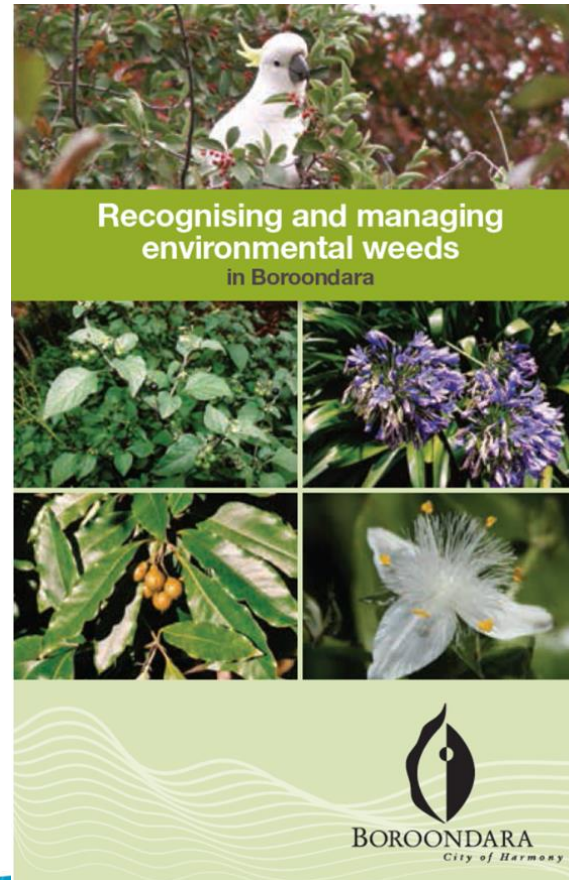
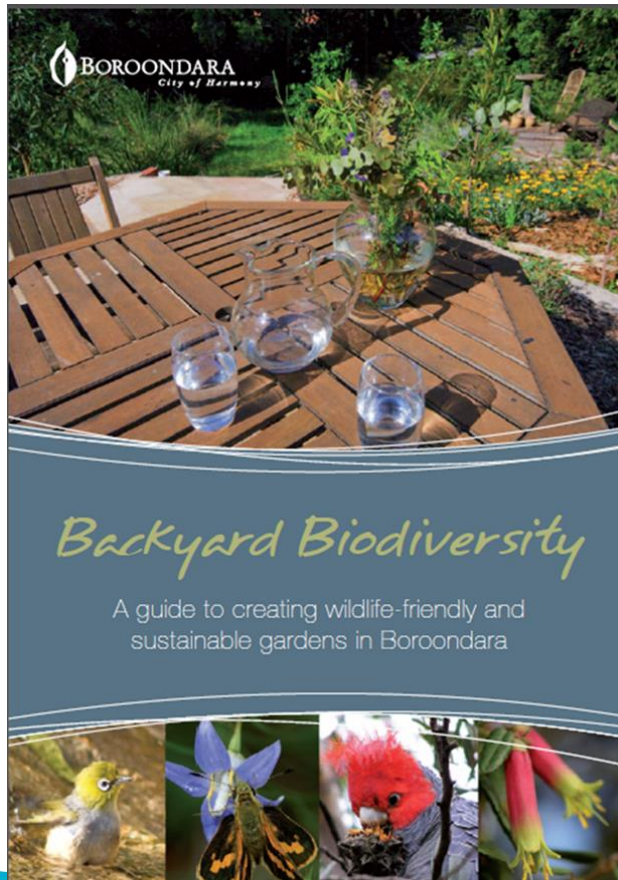
[www.compostrevolution.com.au/Boroondara](http://www.compostrevolution.com.au/Boroondara)

\*Only available to Boroondara residents  
\*Conditions apply



# Backyard Biodiversity program

[www.boroondara.vic.gov.au/backyard-biodiversity](http://www.boroondara.vic.gov.au/backyard-biodiversity)





# Sustainability workshops

[www.boroondara.vic.gov.au/sustainability-workshops](http://www.boroondara.vic.gov.au/sustainability-workshops)



## Wildlife of Boroondara - Live animal show

Sun 13 September 2020  
2:00pm - 3:30pm

Online - Delivered via Zoom  
Camberwell VIC 3124

 Listen   

Free

[Register now](#)

 [Add to Calendar](#)

# Stay in touch

***[www.boroondara.vic.gov.au/contact-us](http://www.boroondara.vic.gov.au/contact-us)***

- Council website
- Boroondara Bulletin (monthly magazine) – online or hard copy
- Boroondara Council Facebook group
- Living for our Future e-newsletter
- Contact us:  
9278 4444 or  
[Boroondara@Boroondara.vic.gov.au](mailto:Boroondara@Boroondara.vic.gov.au)