



“Flick the Switch” –
Buying Renewable
Energy & Saving
Energy at Home

renew.

Acknowledgement of Country



We acknowledge the Wurundjeri Woi Wurrung people as the Traditional Owners and true sovereigns of the land. We also acknowledge the significant contributions made by other Aboriginal and Torres Strait Islander people. We pay our respects to Elders from all nations and to their Elders past, present and future.



Yarra Council's climate emergency response - 100% Renewable Yarra

- Yarra Council has a strong role to play in building our community's capacity to respond to the climate emergency – including helping to reduce carbon emissions
- '100% Renewable Yarra' will assist residents and businesses to switch to renewable energy in order to move the municipality towards 100% renewable energy by 2030
- This campaign includes webinars like this one, but may also include...
 - Partnerships with energy retailers/other organisations to provide access to affordable renewable energy to Yarra residents and businesses
 - Support for Yarra residents and businesses to go solar
 - Trusted advice and actions you can take
- For more information visit www.yarracity.vic.gov.au/climateaction or email climateemergency@yarracity.vic.gov.au

Flick the Switch - Agenda:

renew.

1. Buying Renewable Energy at Home

2. Home Energy Efficiency



renew.

Buying Renewable Energy at Home



How can I access renewables?

renew.

- 1. Rooftop Solar (PV)***
- 2. Solar/efficient hot water**
- 3. GreenPower**
- 4. Carbon Offsets**
- 5. Solar Gardens**



***or other generator (e.g. wind, micro-hydro)**

How can I access renewables?

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***or other generator (e.g. wind, micro-hydro)**

renew.



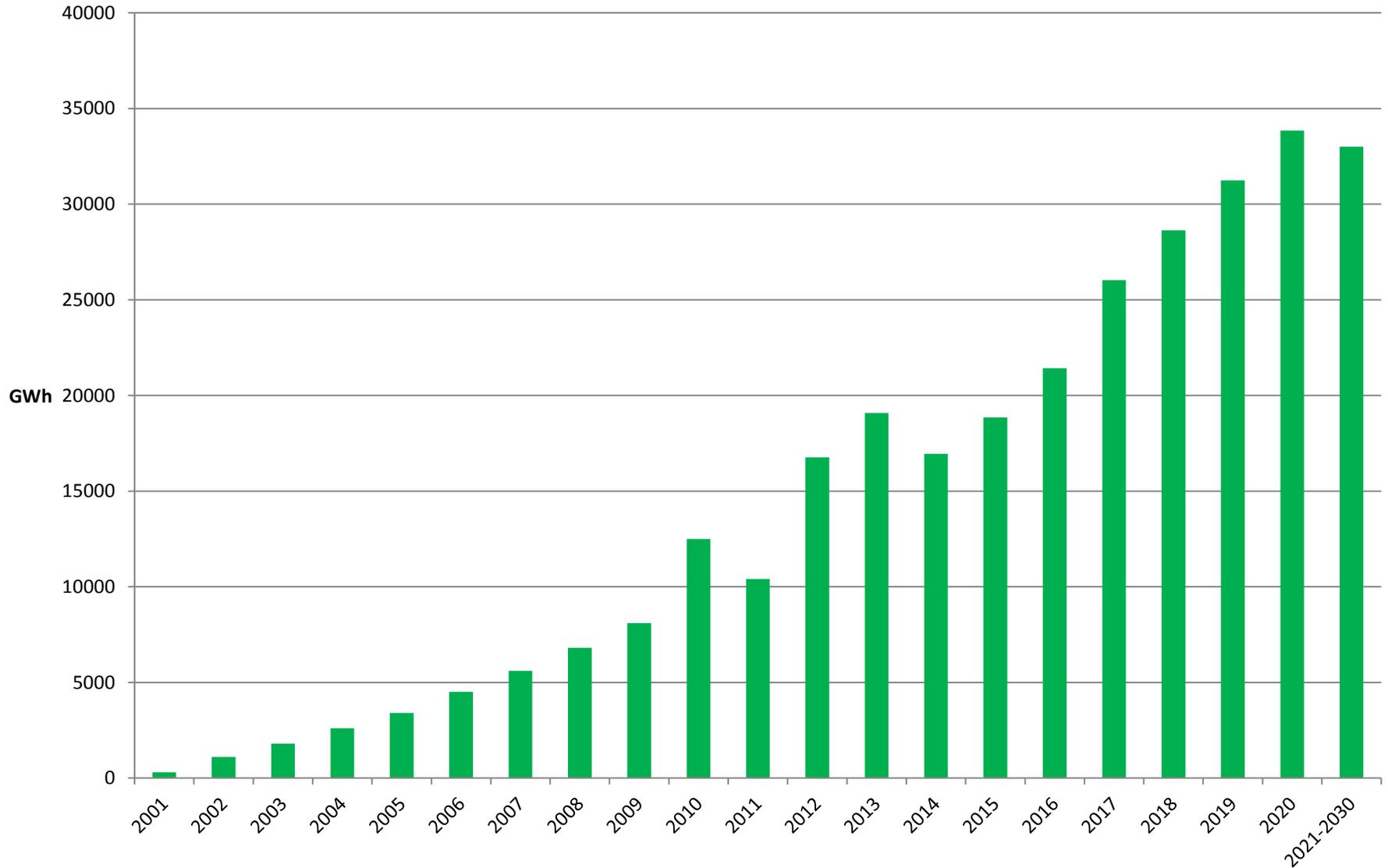
renew.



What is it?

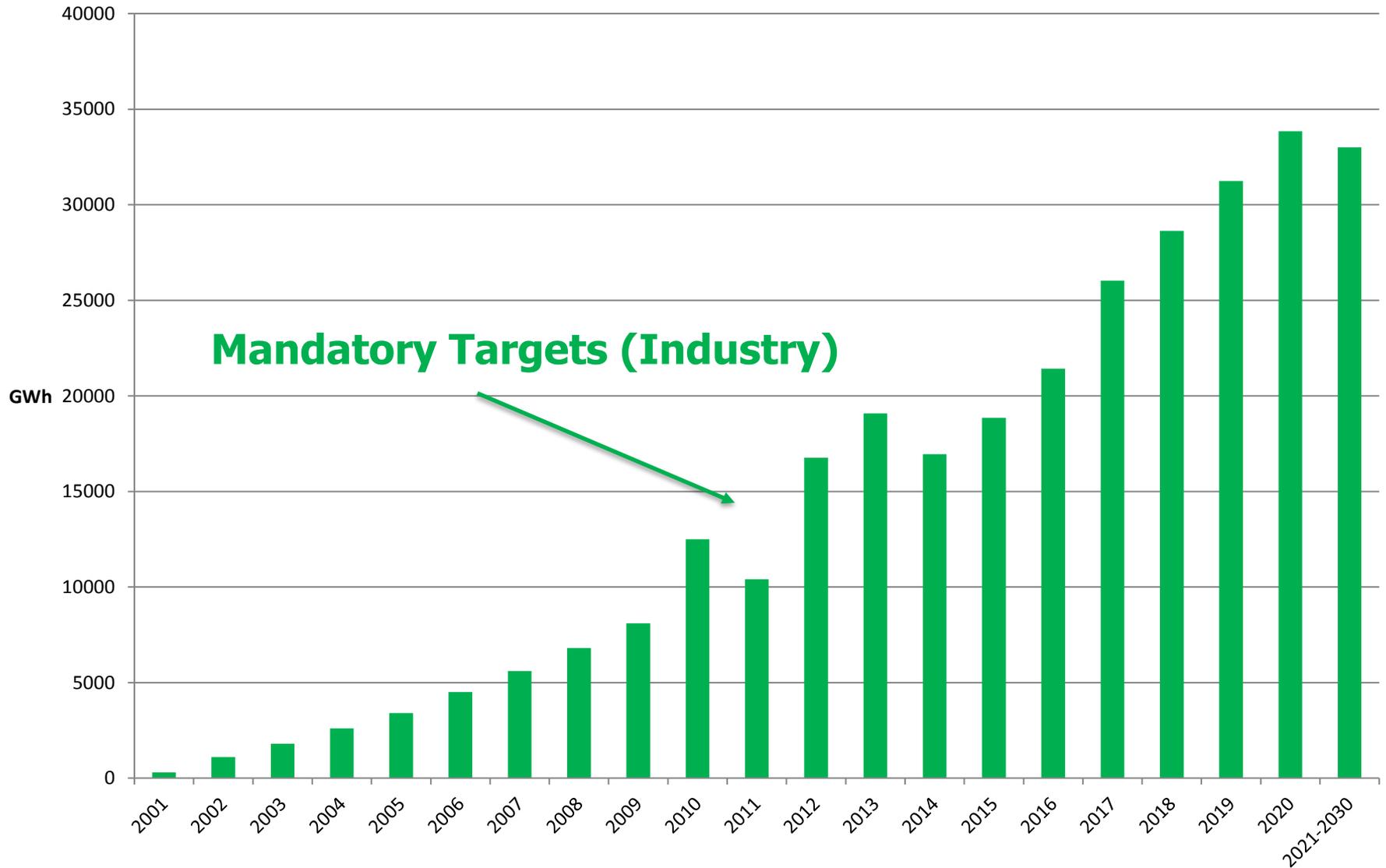
Renewable Energy Target

renew.



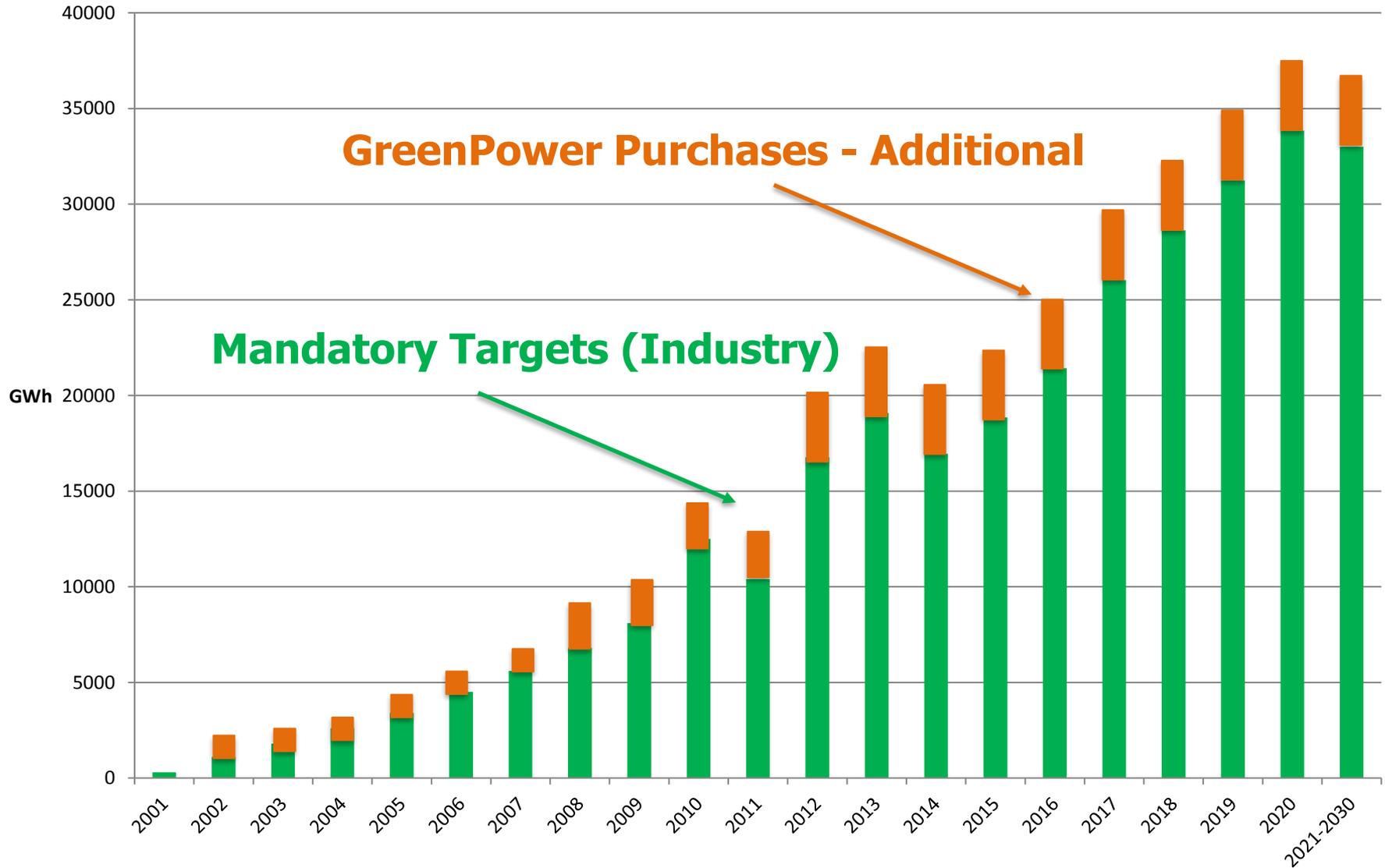
Renewable Energy Target

renew.



Renewable Energy Target

renew.



- Facilitates voluntary, additional investment
- Australian-based RE projects
- Audited annually

- **All types of large-scale renewable energy can be GP:**
 - **but it's mainly large wind farms**
 - **not small tech (solar PV, SHW etc)**



Electricity Charges: Peak

Applicable Charges	Price (excl. GST)	Price (incl. GST)
Usage - Peak usage per day	24.17 cents per kWh	26.587 cents per kWh
Daily Supply Charge	109.00 cents per day	119.90 cents per day

Electricity Charges: Peak + Dedicated Circuit 1

Applicable Charges	Price (excl. GST)	Price (incl. GST)
Usage - Peak usage per day	24.17 cents per kWh	26.587 cents per kWh
Usage - Dedicated Circuit usage per day (if applicable)	15.01 cents per kWh	16.511 cents per kWh
Daily Supply Charge	109.00 cents per day	119.90 cents per day

Electricity Charges: Peak plus Demand

Applicable Charges	Price (excl. GST)	Price (incl. GST)
Usage - Peak usage per day	19.98 cents per kWh	21.978 cents per kWh
Daily Supply Charge	109.00 cents per day	119.90 cents per day
Usage - Capacity Demand Charge per day	22.54 c/kW/day	24.794 c/kW/day

Electricity Charges: Residential Time of Use

Applicable Charges	Price (excl. GST)	Price (incl. GST)
Usage - Peak usage per day - Between 7am & 11pm, Monday to Friday AEST	31.16 cents per kWh	34.276 cents per kWh
Usage - Off-Peak usage per day (if applicable) - All other times	16.60 cents per kWh	18.26 cents per kWh
Daily Supply Charge	109.00 cents per day	119.90 cents per day

Price Changes	Prices may be varied in line with your terms and conditions and we will provide you with notice of these not later than your next bill.
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GreenPower options

You can add on a GreenPower accredited renewable energy option to your plan for an additional charge

Add-on option	Price (excl. GST)	Price (incl. GST)
PureEnergy 10%	\$0.0770 x (10% x total usage)	\$0.08470 x (10% x total usage)
PureEnergy 20%	\$0.0770 x (20% x total usage)	\$0.08470 x (20% x total usage)
PureEnergy 100%	\$0.0770 per kWh	\$0.08470 per kWh

Benefits

Pay by due date discount	33% off your market usage charges set out above on each bill that you pay by the due date. The discount excludes overdue amounts, reconnection or disconnection fees, or any charges passed on by your distributor. Our rates will generally be adjusted annually, and we'll notify you when this happens. Your discount percentage won't change during your benefit period.
Bonus Online sign-up credit	You will receive a \$50 credit (incl. GST) on the first bill which is non-transferable and non-refundable for cash when you sign up online via energyaustralia.com.au .
Benefit Period	The Benefit Period is for 1 year. We will provide you with notice of your options prior to the end of the Benefit Period. Your contract will continue until it is ended by either party.

Fees

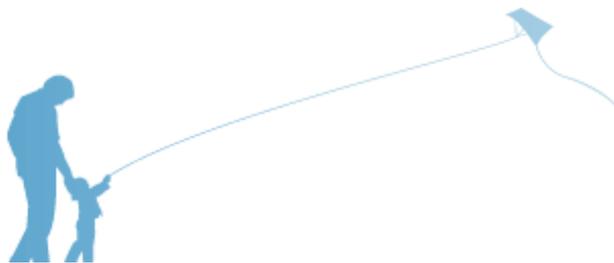
- **All Vic electricity retailers offer GP**



- **All Vic electricity retailers offer GP**
 - **and it's the same product**
 - **potentially differently priced**



- **Also offered by “de-coupled” providers**
 - **many of whom sell carbon offsets**



www.climatechest.org.au/



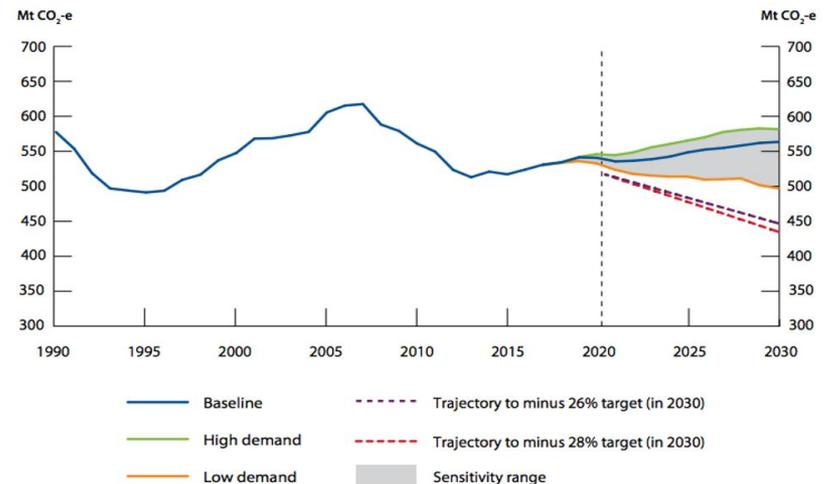
renew.

- **Does it make a difference?**

- **Does it make a difference?**
 - **More renewable energy? YES**



- **Does it make a difference?**
 - **More renewable energy? YES**
 - **Additional emissions reductions? NO**



Carbon Offsets



What is a Carbon Offset?

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- **A carbon offset is:**
 - **generated from an activity that prevents, reduces or removes greenhouse gas emissions from being released into the atmosphere.**

What is a Carbon Offset?

renew.

- **Practically, an offset is:**
 - a Certificate
 - accredited under a scheme
 - equates to **1 tonne of CO2e reduced**



What is a Carbon Offset?

renew.



**The
Guardian**

What is a Carbon Offset?

renew.



What is a Carbon Offset?

renew.



What is a Carbon Offset?

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What is a Carbon Offset?

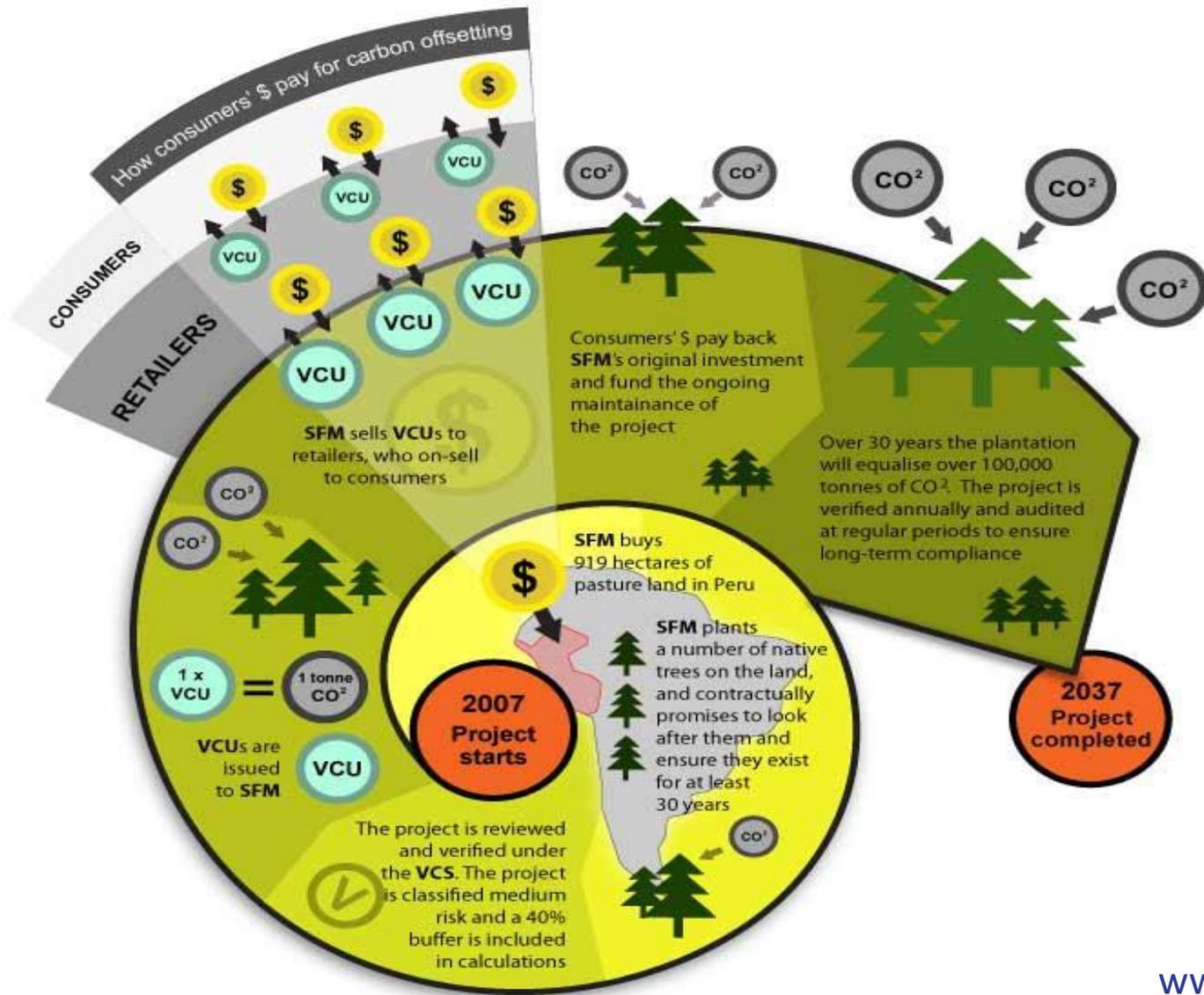
renew.



Life-cycle of a carbon offsetting project

Illustrated here is a simplified life-cycle of a real carbon offsetting project, which has been verified under the **VCS**. When you pay to offset a tonne of carbon by buying **VCU**s, you're retrospectively funding the project and providing for its long-term maintenance.

VCU - Verified Carbon Unit
VCS - Verified Carbon Standard
SFM - Sustainable Forest Management Ltd (project operator)



- **In Australia - No mandatory requirement for individuals to reduce emissions**
 - **Some companies have to...**
- **Offsets bought voluntarily by consumers**

Typical Questions

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- **Are offsets dodgy?**
- **Do they actually make a difference?**
- **What do they cost?**
- **Where can I buy one?**



Are Offsets Dodgy/Real?

renew.



Are Offsets Dodgy/Real?

renew.

- **Has it been accredited under a Standard?**



Are Offsets Dodgy/Real?

renew.

- **Has it been accredited under a Standard?**
- **Multiple Standards exist**
- **Most are international**



Are Offsets Dodgy/Real?

renew.

- **Why have Standards?**
 - Must be real, measurable
 - Additional (beyond BAU)
 - Permanent (not temporary displacement)
 - Independently verified



Are Offsets Dodgy/Real?

renew.

- **International Standards:**
 - **Verified Carbon Standard**



Are Offsets Dodgy/Real?

renew.

- **International Standards:**
 - **Verified Carbon Standard**
 - **Gold Standard**
 - **Social Carbon Standard**



**Verified Carbon
Standard**



SOCIALCARBON®

Are Offsets Dodgy/Real?

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- **Australian Standard:**
 - **National Carbon Offset Standard**
 - **Not that many certified projects in Australia**



How much do Offsets cost?

renew.



How much do Offsets cost?

renew.

- **Generally speaking:**



How much do Offsets cost?

renew.

- **Generally speaking:**
 - **Less than GreenPower**



How much do Offsets cost?

renew.

- **Generally speaking:**
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 - **\$ International < \$ Australian**



How much do Offsets cost?

renew.

- **Generally speaking:**
 - **Less than GreenPower**
 - **\$ International < \$ Australian**
 - **e.g:**
 - **GP = \$30/tonne (Vic)**
 - **Australian = \$20 - \$25/tonne**
 - **International = \$2 - \$10/tonne**



How much will it cost your home?

renew.



How much will it cost your home? **renew.**

- **How much CO₂e does a home emit?**



How much will it cost your home? **renew.**

- **How much CO₂e does a home emit?**
 - **per capita, each Victorian person = 18.4 tonnes p.a.**
 - **e.g. 2-4 person household = 40-80 tonnes p.a.**



Victorian Greenhouse Gas Emissions Report, 2018
National average = 21.7 tonnes p.a.
Each house can vary considerably

How much will it cost your home?

renew.

- **Cost for 2-4 person home:**
 - **\$1,000 to \$2,500 (GreenPower)**



How much will it cost your home?

renew.

- **Cost for 2-4 person home:**
 - **\$1,000 to \$2,500 (GreenPower)**
 - **\$700 to \$2,000 (Australian offset)**



How much will it cost your home?

renew.

- **Cost for 2-4 person home:**
 - **\$1,000 to \$2,500 (GreenPower)**
 - **\$700 to \$2,000 (Australian offset)**
 - **\$70 to \$1,000 (International Offset)**



Where can I buy a Carbon Offset?



Where can I buy one?

renew.



DONATE

OFFSET

Home About us ▾ Our forests ▾ Organisations ▾ Individuals ▾ Landowners CarbonCover 365

Search...

You are here: > Home > Individuals > Offset your carbon emissions

Offset your carbon emissions

Select between offsetting as an **individual** or on behalf of an **organisation**.



For individuals



For organisations

1. Homepage

www.greenfleet.com.au/

Where can I buy one?

renew.



DONATE

OFFSET

Home About us ▾ Our forests ▾ Organisations ▾ Individuals ▾ Landowners CarbonCover 365

Search...

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Offset your carbon emissions

Select between offsetting as an **individual** or on behalf of an **organisation**.



For individuals



For organisations

1. Homepage

www.greenfleet.com.au/

Since 1997!

Where can I buy one?

renew.



Register »

Client Login »



ABOUT US ▾

PRODUCTS ▾

ADVISORY SERVICES ▾

NEWS

CALCULATOR

CONTACT US



<https://carbonneutral.com.au/>

Where can I buy one?

renew.



Register »

Client Login »



ABOUT US ▾

PRODUCTS ▾

ADVISORY SERVICES ▾

NEWS

CALCULATOR

CONTACT US



<https://carbonneutral.com.au/>

Since 2002!

Where can I buy one?

renew.



GreenPower to the People

We direct a share of the proceeds to local environmental groups

[Start now](#)



Welcome to C3

We provide real renewable energy and carbon offsets to households and businesses that wish to neutralise their greenhouse emissions

www.climatechest.org.au/



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**My retailer says all their
energy is green?**



Energy Retailers & Offsets

renew.

- Really? How?



Energy Retailers & Offsets

renew.

- **Really? How?**
 - **What specific accredited offset certificate are they selling?**



Energy Retailers & Offsets

renew.

- **Really? How?**
 - **What specific accredited offset certificate are they selling?**
 - **Under what international or Australian program?**



Energy Retailers & Offsets

renew.

- **Really? How?**
 - **What specific accredited offset certificate are they selling?**
 - **Under what international or Australian program?**
 - **Or is it GreenPower?**



Energy Retailers & Offsets

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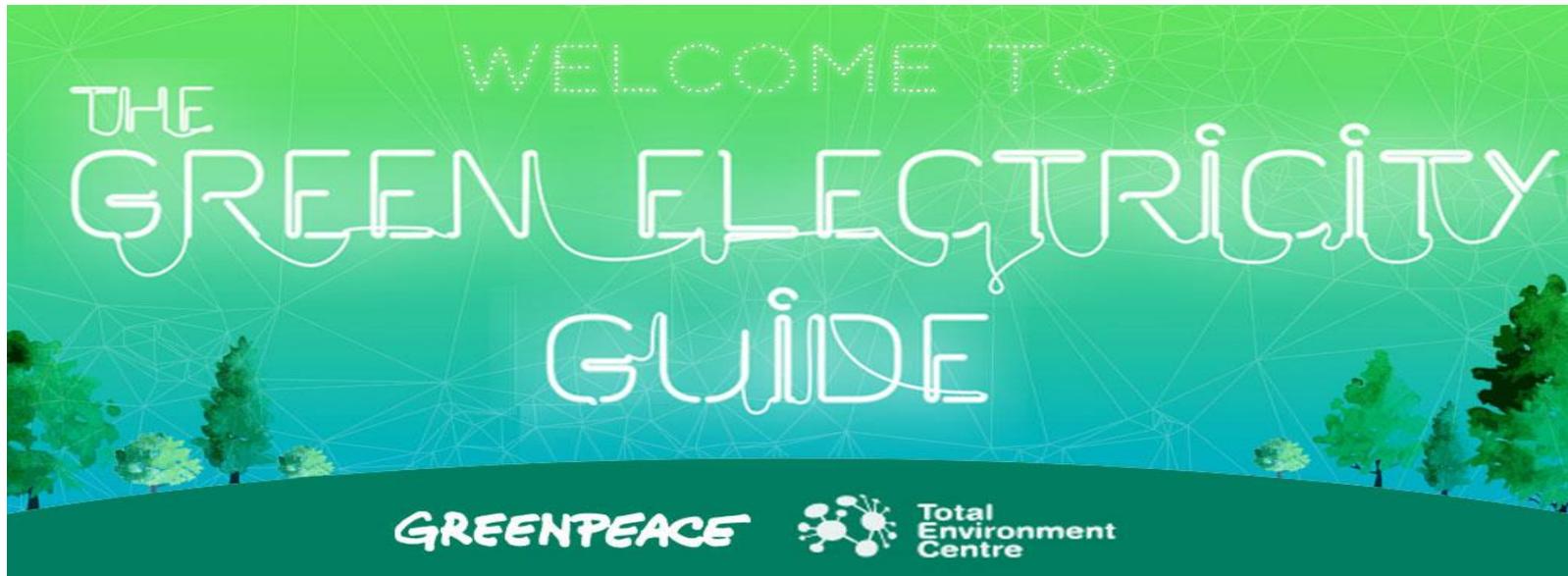
- **Really? How?**
 - **What specific accredited offset certificate are they selling?**
 - **Under what international or Australian program?**
 - **Or is it GreenPower?**
 - **Ask some questions....**



Is My Retailer “Green”?

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- Total Environment Centre & Greenpeace's *Green Electricity Guide*
- www.greenelectricityguide.org.au



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What is a Solar Garden?



What is a Solar Garden?

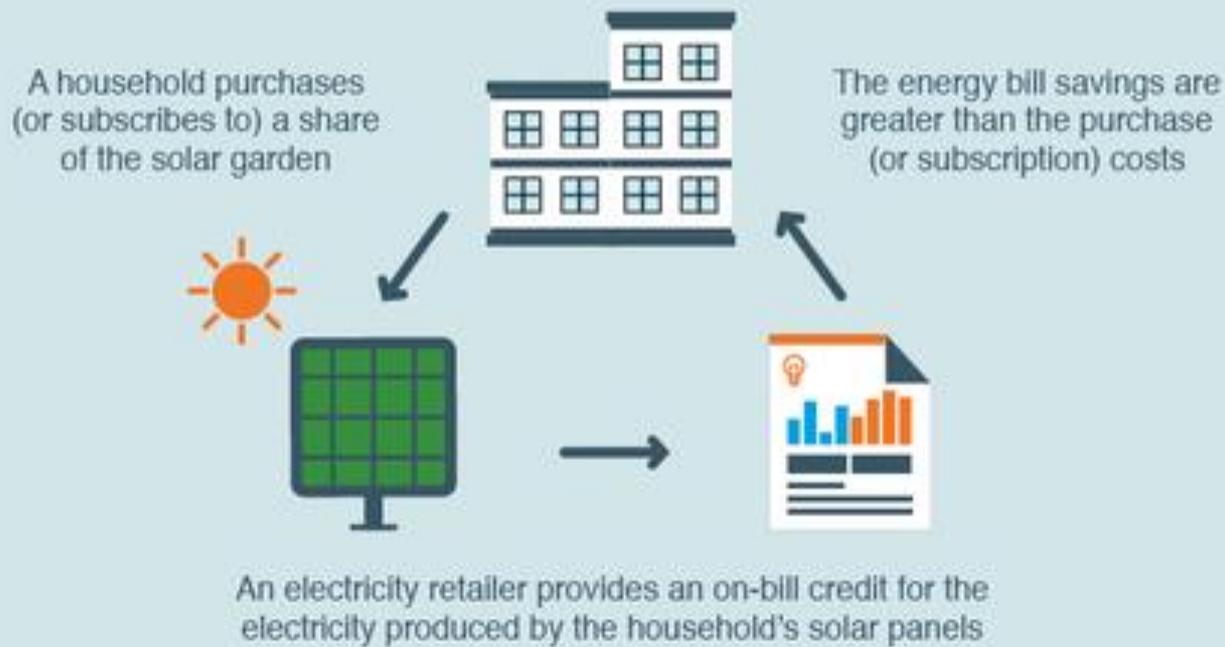
renew.

- **You can access renewable energy without solar on your roof**
- **You can either:**
 - own a share of the panels; or
 - subscribe to the program;
 - and get a credit on your bill (or financial return)
- **Facilitated by an energy retailer**

What is a Solar Garden?

renew.

WHAT IS A SOLAR GARDEN?



What is a Solar Garden?

renew.



What is a Solar Garden?

renew.

- **Where can I sign up?**



What is a Solar Garden?

renew.

- **Where can I sign up?**
- **Unfortunately, early days.**



What is a Solar Garden?

renew.

- **Where can I sign up?**
- **Unfortunately, early days.**
- **Enova Energy:**
 - North Coast Community Housing Solar Garden

www.enovaenergy.com.au



What is a Solar Garden?

renew.

- **Where can I sign up?**
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www.enovaenergy.com.au

www.renew.org.au/renew-magazine/solar-batteries/solar-gardens/

<https://cpagency.org.au/solarforall/>



Other Programs:

renew.



-
- **Local Govt program:**
 - For Solar PV
 - Borrow and repay thru Council rates
 - 9 Councils currently in Vic

<https://solarsavers.org.au/>

renew.

For more information....



www.yarracity.vic.gov.au/climateaction

www.yef.org.au

renew.

Saving Energy at Home



In Victoria:

renew.

VICTORIAN ENERGY COMPARE

Welcome to Victorian Energy Compare

Welcome to Victorian Energy Compare

To get the most out of this tool, you need a recent energy bill or smart meter data file.

Get started

What energy are you looking to compare?

 Electricity

 Gas

<https://compare.energy.vic.gov.au/>

Energy Concessions:

renew.

- Delivered by Vic Govt
- Through your energy retailer
- Bill credit (20-30%)

www.services.dhhs.vic.gov.au/energy



Health
and Human
Services



Disability ▾

Families & children ▾

Concessions & benefits ▾

Housing ▾

Young people ▾

Emergencies ▾

**Concessions
& benefits**

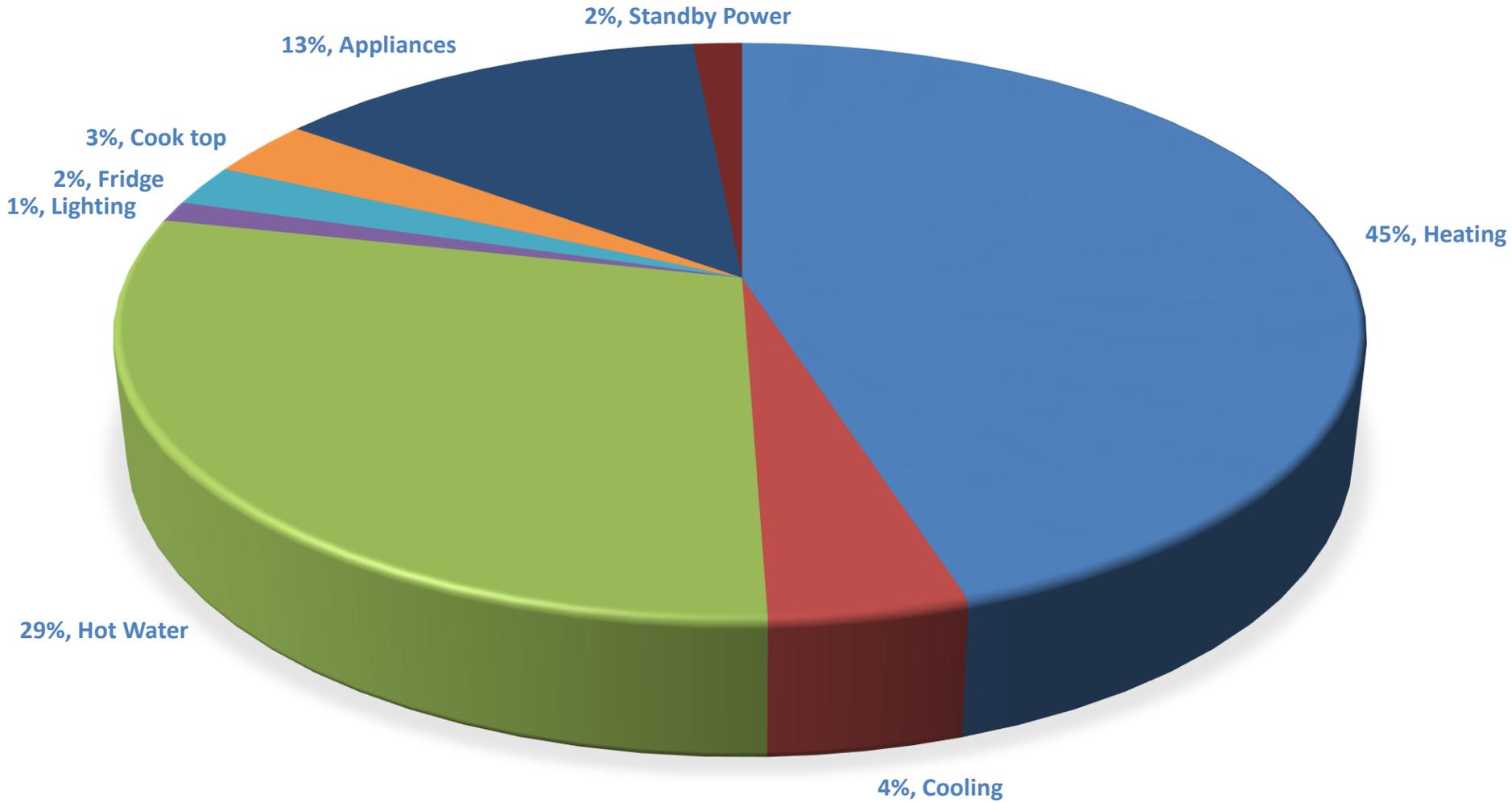


What are the major household energy users/costs?



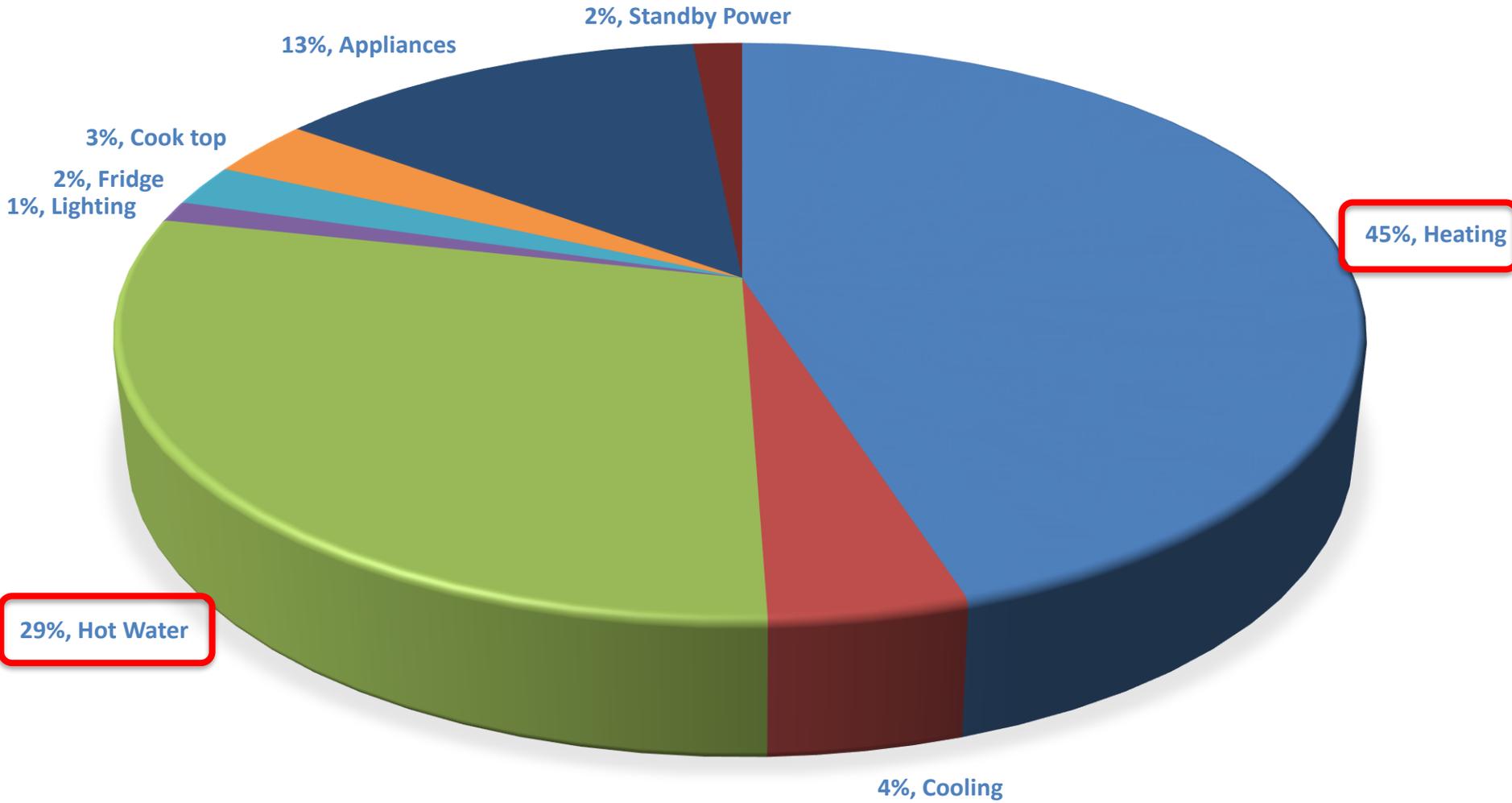
ENERGY USE, MELBOURNE

renew.



ENERGY USE, MELBOURNE

renew.



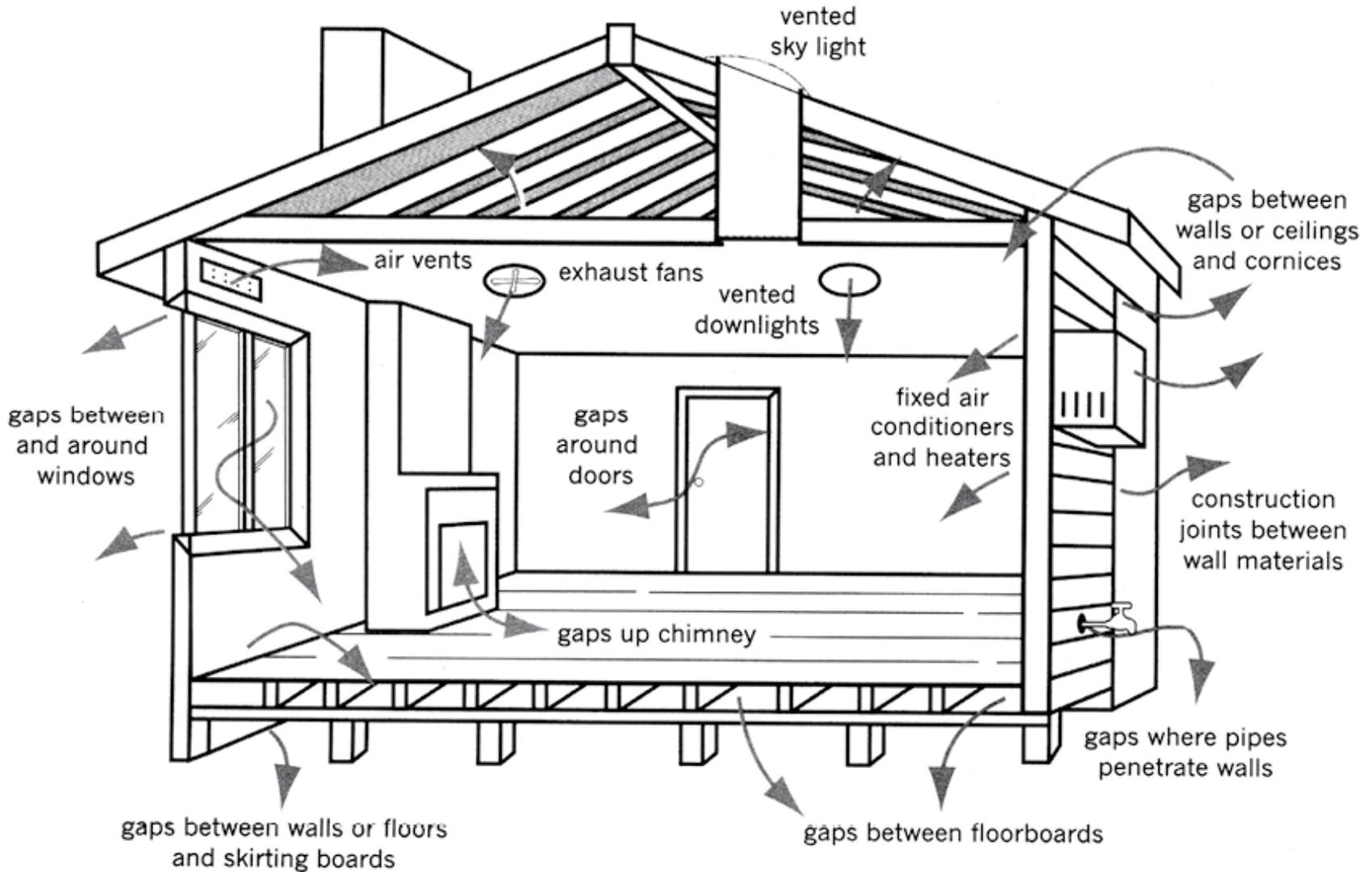
What can I do about heating?



...or thermal
comfort

Heat transfer in homes....

renew.



Newer homes:

renew.



- **Energy standards started 2005**
- **Improved 2010**

...better than old ones:



Achieving thermal comfort:

renew.



Achieving thermal comfort:

renew.

- **Think about how you use each room**



Achieving thermal comfort:

renew.

- **Think about how you use each room**
- **What are your most frequented spaces?**



Achieving thermal comfort:

renew.

- **Think about how you use each room**
- **What are your most frequented spaces?**
- **Do u need whole-of-house, 24/7 heat (or cooling)?**



Achieving thermal comfort:

renew.



- **Think about how you use each room**
- **What are your most frequented spaces?**
- **Do u need whole-of-house, 24/7 heat (or cooling)?**
- **Can you ZONE rooms?**

renew.

**For more frequented
spaces...**



renew.

**For more frequented
spaces...**



**...have a good
look at them**

Any of these?

renew.



Any of these?



renew.

Or these?



Any of these?



renew.

Or these?



Or this?



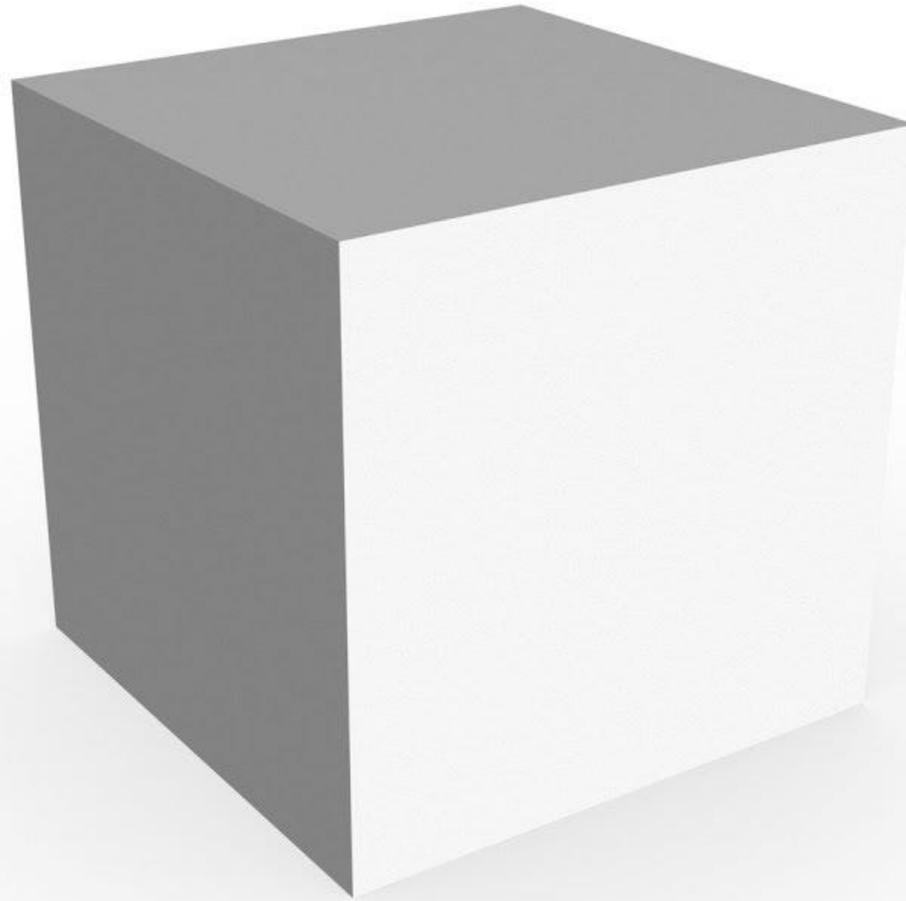
renew.

**What are we trying to
achieve?**



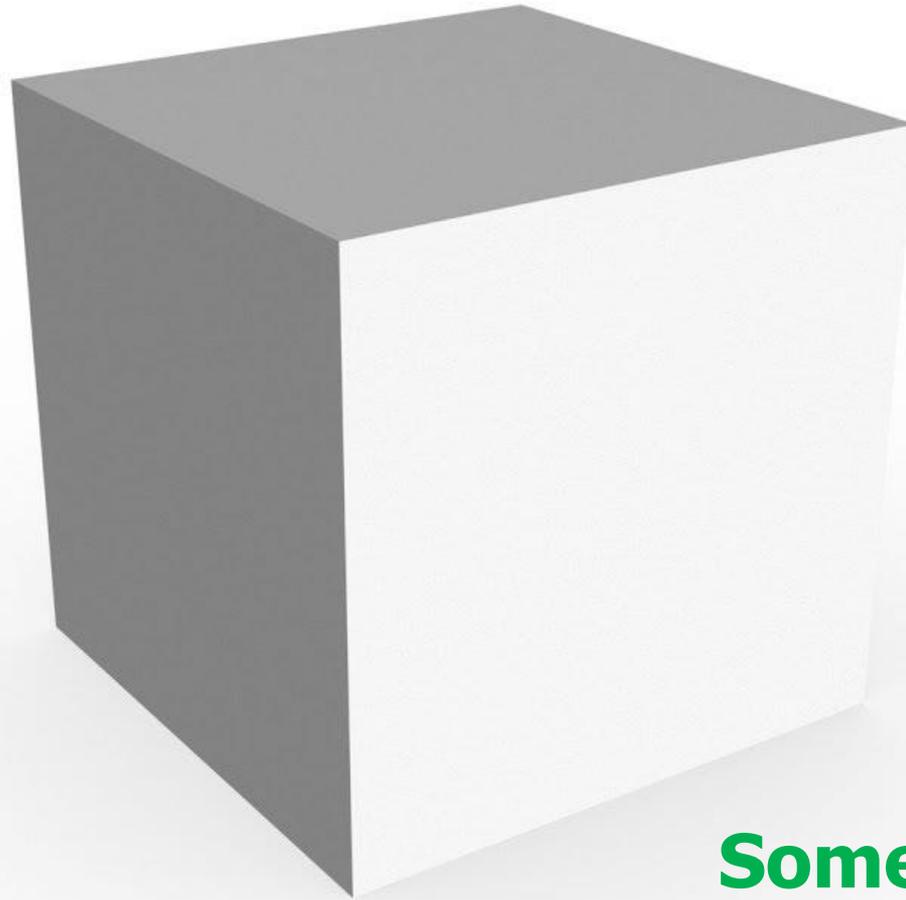
What are we trying to achieve?

renew.



What are we trying to achieve?

renew.



**Some air change
actually good...**

Managing Draughts

renew.

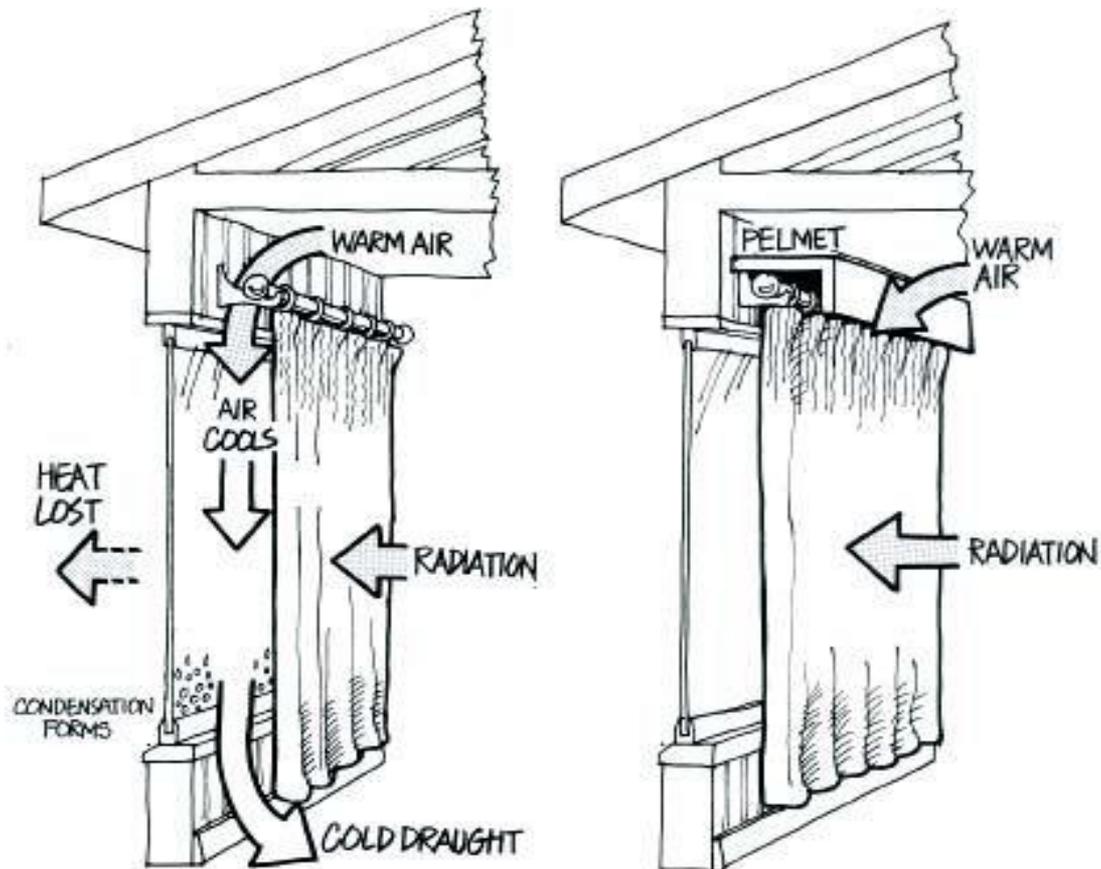
Draught proof everywhere you can



Curtains & Pelmets

renew.

For winter but also help in summer...



Other little tricks:

renew.

- **Draught Stoppas:**

- **Close vents when not in use**



Other little tricks:

renew.

- **Vent directors**
 - **Push the heat into middle of the room**



Other little tricks:

renew.

- **Turn down the thermostat:**
 - **1 degree = 10% of energy use**

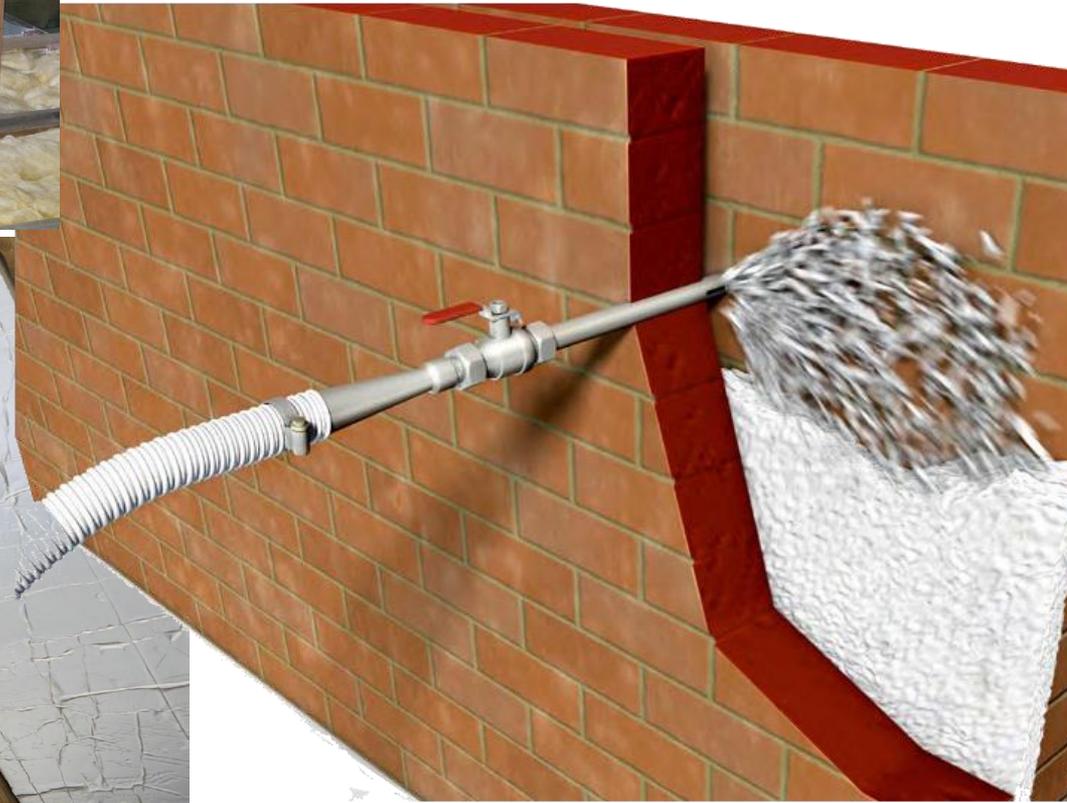


Insulation

renew.



Ceiling (batts and foil) and Walls



Underfloor Insulation

renew.





Reduce your bills

Stay cool in summer,
warm in winter

Solar for renters

Ways to work with
your landlord

renew.

RENTERS GUIDE TO SUSTAINABLE LIVING

Tips for a more comfortable and energy efficient home



www.renew.org.au

renew.

And then, heating Appliances



LOTS & LOTS of different types:

renew.

LOTS & LOTS of different types:

renew.



LOTS & LOTS of different types:

renew.



LOTS & LOTS of different types:

renew.



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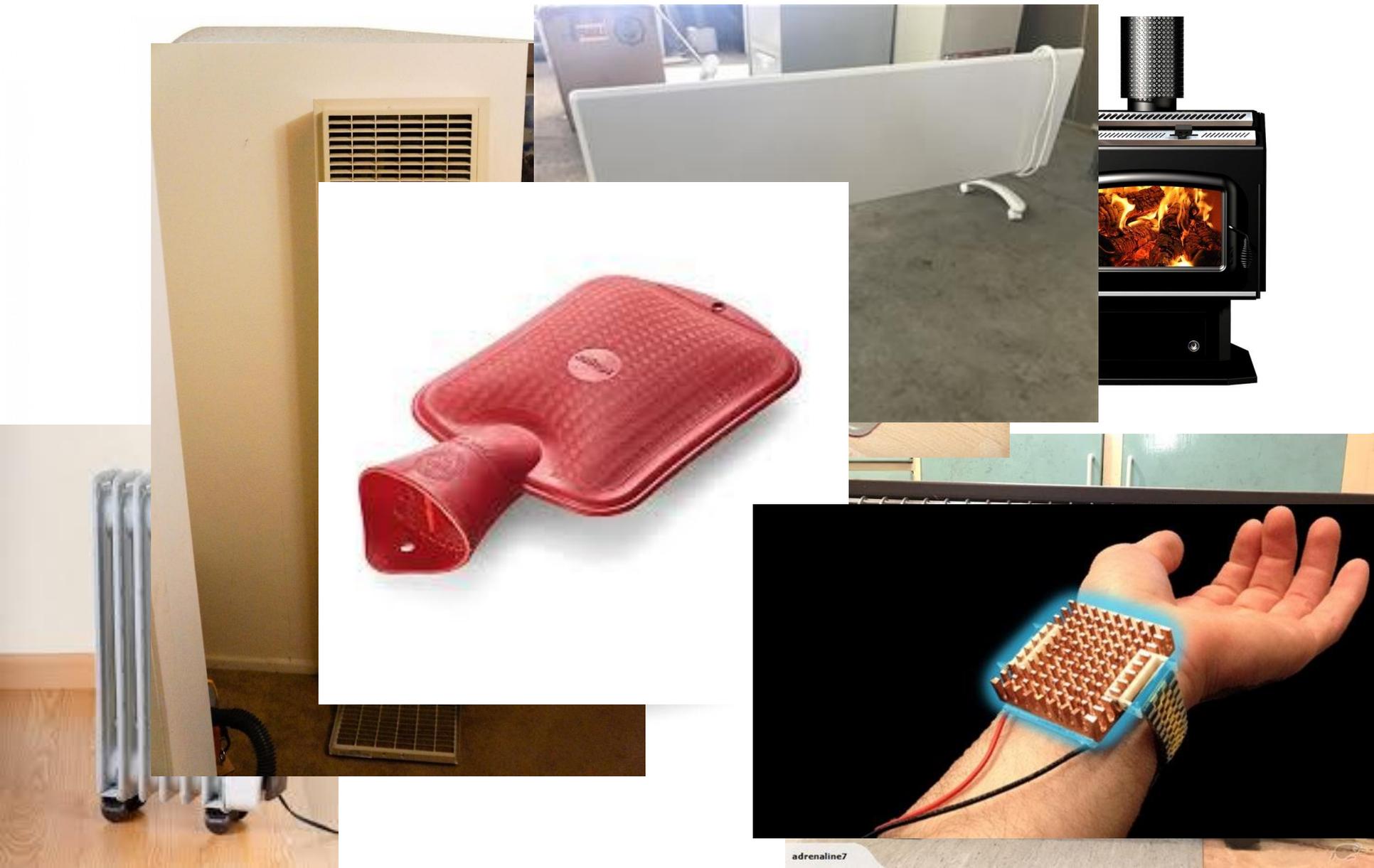
LOTS & LOTS of different types:

renew.



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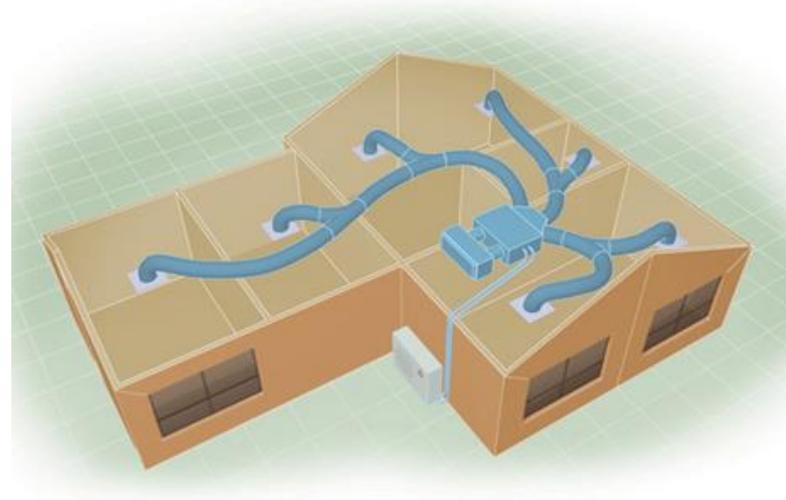
Main Heating Types:

renew.

Main Heating Types:

renew.

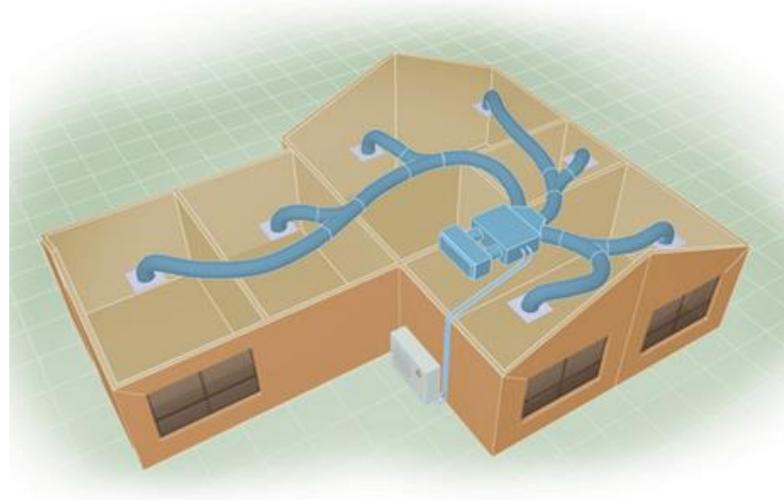
Whole of House:



Main Heating Types:

renew.

Whole of House:



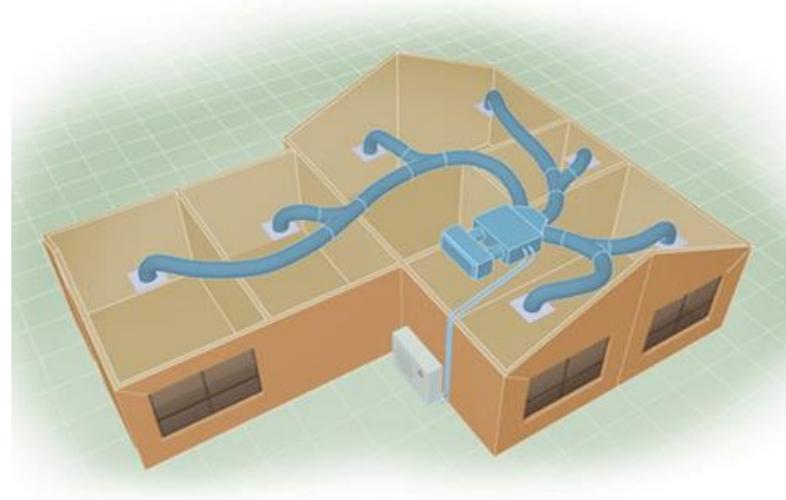
Room Heaters:



Main Heating Types:

renew.

Whole of House:



Room Heaters:



Personal Heaters:



**What are the most efficient/
least cost to run?**

renew.

**What are the most efficient/
least cost to run?**

renew.

Reverse cycle air con:

- **5x more efficient than resistive/panel**



**What are the most efficient/
least cost to run?**

renew.

Reverse cycle air con:

- **5x more efficient than resistive/panel**
- **6-13x more efficient than gas**



**What are the most efficient/
least cost to run?**

renew.

Reverse cycle air con:

- **5x more efficient than resistive/panel**
- **6-13x more efficient than gas**
- **Can do whole room or whole house**



What about some others?

renew.

Electric (plug-in) Panel heaters:



What about some others?

renew.

Electric (plug-in) Panel heaters:

- **Resistive technology**
- **No efficiency gain**



What about some others?

renew.

Electric (plug-in) Panel heaters:

- **Resistive technology**
- **No efficiency gain**



What about some others?

renew.

Electric (plug-in) Panel heaters:

- **Resistive technology**
- **No efficiency gain**
- **Good for small rooms for a few hours**
- **Expensive for large rooms for 6-10 hrs**



Gas heaters:

renew.



Gas heaters:

renew.



Gas heaters:

renew.

- **Generally low efficiency**
 - **Depends on age**
- **Existing units - good for individual rooms**



Gas heaters:

renew.

- **Generally low efficiency**
 - **Depends on age**
- **Existing units - good for individual rooms**



- **Old Gas ducted:**
 - **ducts leaky**
 - **burner inefficient**
 - **can be expensive to run**



Costs & Savings

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Upgrade Measure	Ave. Energy Saving (MJ/yr)		Ave. Cost (\$)	Ave. Bill Saving (\$/yr)	Ave. Payback (yrs)
	Gas	Elec			
Low flow showerhead	1,333	69	\$49	\$65.3	0.7
Swimming pool pump	0	231	\$34	\$16.6	2.0
Ceiling insulation (easy)	958	32	\$79	\$24.9	3.2
Lighting	0	1,202	\$363	\$110.6	3.3
Ceiling insulation (difficult)	1,630	68	\$278	\$43.6	6.4
Heating	6,239	215	\$1,111	\$162.7	6.8
Draught sealing	5,779	164	\$1,020	\$147.4	6.9
Clothes washer	135	16	\$191	\$26.0	7.4
Refrigerator	0	1,202	\$1,104	\$110.6	10.0
Reduce sub-floor ventilation	589	12	\$167	\$14.6	11.4
Seal wall cavity	903	24	\$270	\$22.9	11.8
Gas heating ductwork	1,126	9	\$350	\$26.6	13.1
Ceiling insulation (top up)	853	22	\$335	\$21.5	15.6
Underfloor insulation	1,803	10	\$785	\$42.2	18.6
Dishwasher	0	112	\$258	\$12.0	21.6
Cavity wall insulation	5,283	130	\$3,959	\$132.9	29.8
Drapes/Pellets	2,209	54	\$2,036	\$55.6	36.6
Clothes dryer	0	124	\$728	\$11.4	64
Double glazing	2,278	66	\$12,145	\$58.2	209
External shading	0	9	\$464	\$0.8	587

Costs & Savings

renew.

Upgrade Measure	Ave. Energy Saving (MJ/yr)		Ave. Cost (\$)	Ave. Bill Saving (\$/yr)	Ave. Payback (yrs)
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Cavity wall insulation	5,283	130	\$3,959	\$132.9	29.8
Drapes/Pelmets	2,209	54	\$2,036	\$55.6	36.6
Clothes dryer	0	124	\$728	\$11.4	64
Double glazing	2,278	66	\$12,145	\$58.2	209
External shading	0	9	\$464	\$0.8	587

Costs & Savings

renew.

Upgrade Measure	Ave. Energy Saving (MJ/yr)		Ave. Cost (\$)	Ave. Bill Saving (\$/yr)	Ave. Payback (yrs)
	Gas	Elec			
Low flow showerhead	1,333	69	\$49	\$65.3	0.7
Swimming pool pump	0	231	\$34	\$16.6	2.0
Ceiling insulation (easy)	958	32	\$79	\$24.9	3.2
Lighting	0	1,202	\$363	\$110.6	3.3
Ceiling insulation (difficult)	1,630	68	\$278	\$43.6	6.4
Heating	6,239	215	\$1,111	\$162.7	6.8
Draught sealing	5,779	164	\$1,020	\$147.4	6.9
Clothes washer	135	16	\$191	\$26.0	7.4
Refrigerator	0	1,202	\$1,104	\$110.6	10.0
Reduce sub-floor ventilation	589	12	\$167	\$14.6	11.4
Seal wall cavity	903	24	\$270	\$22.9	11.8
Gas heating ductwork	1,126	9	\$350	\$26.6	13.1
Ceiling insulation (top up)	853	22	\$335	\$21.5	15.6
Underfloor insulation	1,803	10	\$785	\$42.2	18.6
Dishwasher	0	112	\$258	\$12.0	21.6
Cavity wall insulation	5,283	130	\$3,959	\$132.9	29.8
Drapes/Pelmets	2,209	54	\$2,036	\$55.6	36.6
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For more information....



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