

# ***Energy Use REES, Rebates Toolkits & Energy Friends***

*Nick Branson  
Energy Division  
Dept for Transport, Energy & Infrastructure*

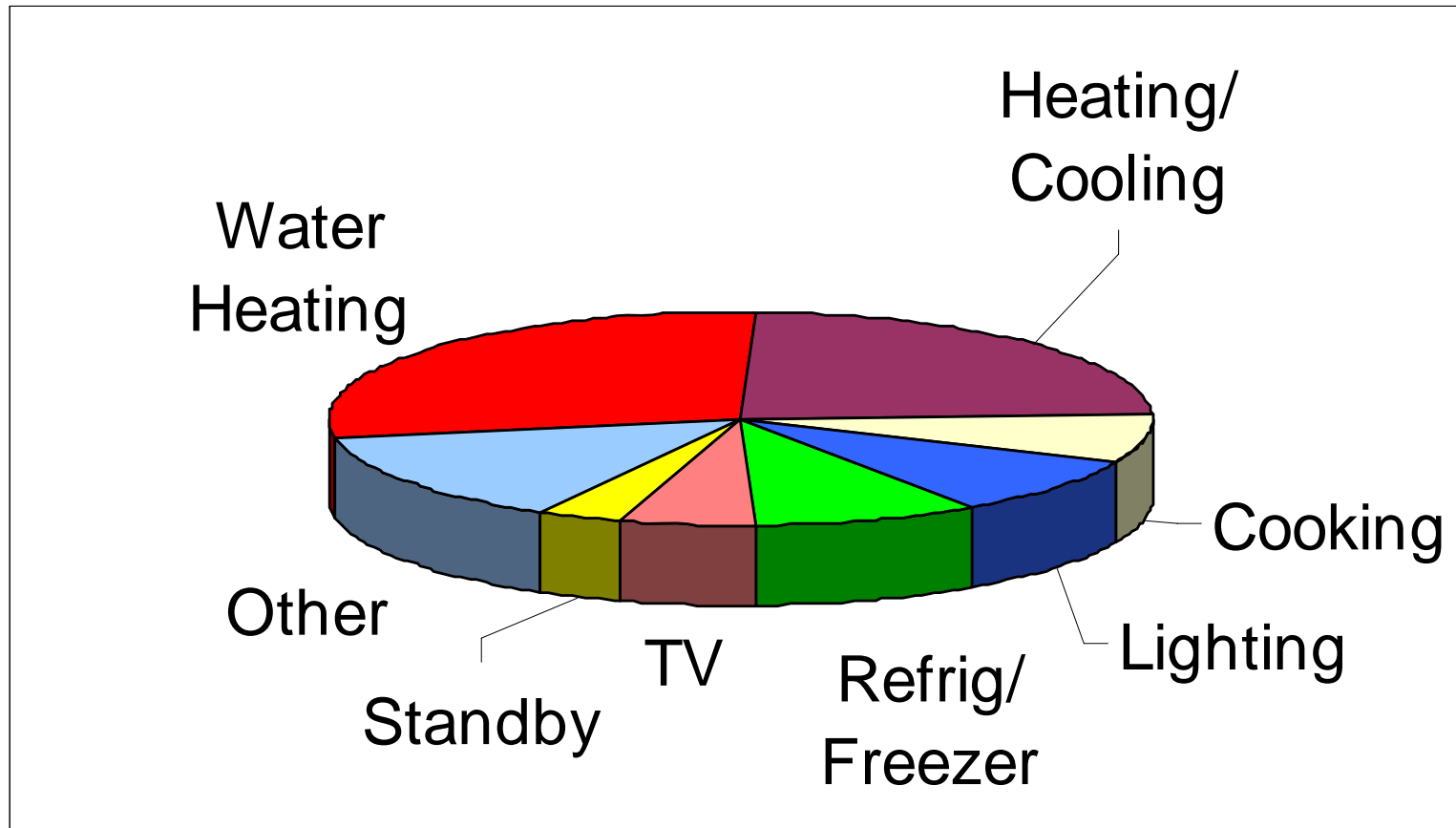
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**Government of South Australia**

Department for Transport,  
Energy and Infrastructure

# How Energy is Used in SA Homes



Source: Dept of Environment, Water, Heritage & the Arts 2008  
Excludes Firewood

# Lifestyle changes and energy use

## Why is it important to be energy efficient?

- **Computers:** 0.87 per household in 2005 – 1.25 per household in 2020



**Televisions:** Increase in LCD and Plasma screens

**Home entertainment:** Increase in DVD players, game consoles, set-top boxes, laptops

- Increase in time spent using home entertainment equipment

# Energy in schools

Energy trailer – light globes, AAA showerheads, passive design, energy use behaviour, solar panels – trialled in 3 schools



Issues with safety, portability, storage, maintenance, set up time

Considering;

more portable manageable interactives

ppt & interactives

class room activities & resources

cover yrs 3-9

student mentoring

# Rebates and Incentives

## Residential Energy Efficiency Scheme (SA)

Energy providers set targets for improving household energy efficiency

Incentives offered for energy saving measures and low income audits

## Water Heater (Aust)

Replacing elec storage with solar or heat pump – up to \$1,600

## Water Heater (SA)

New elec heat pump/solar \$500

Low income owner-occupiers only

New hot water rules



## Ceiling Insulation (Aust)

up to \$1,600 (Homeowners)

up to \$1,000 (Landlords/Tenants)

## Green Loans (Aust)

Free in home energy & water assessment + no interest loan to retrofit – up to \$10,000

## Other

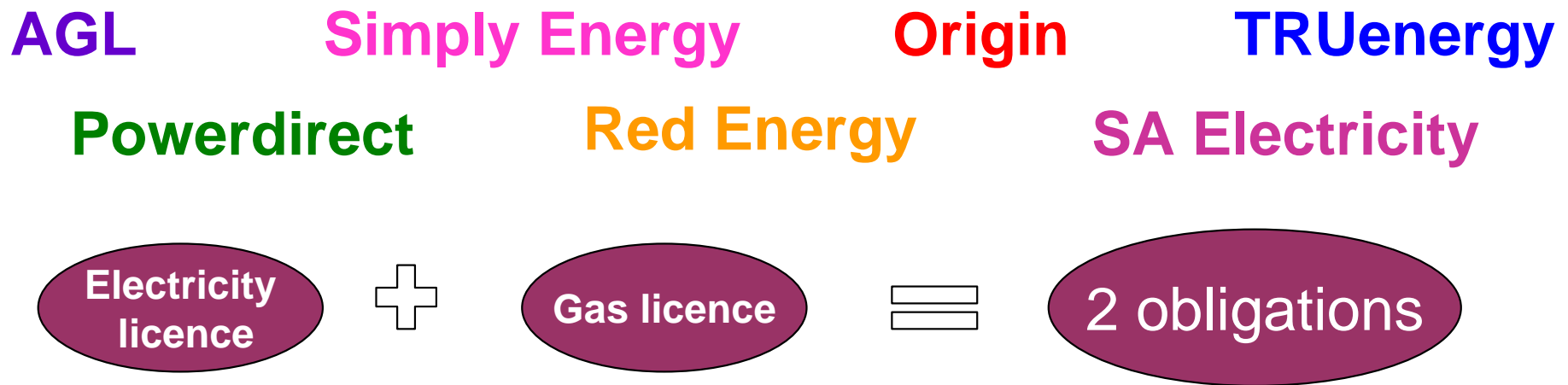
SA Water rebates e.g. shower heads + washing machines

Concessions – energy + water

PV Solar Credits

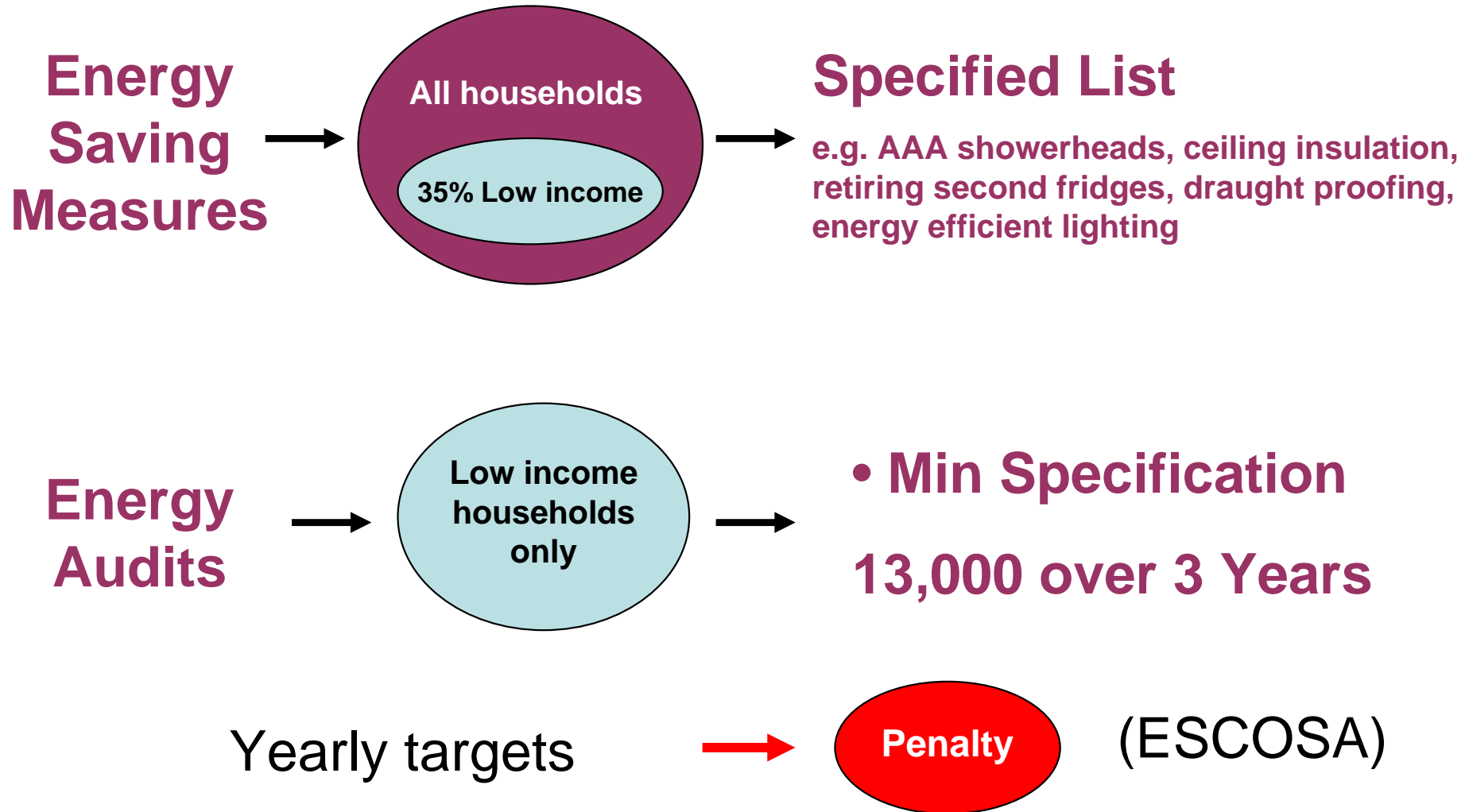
# Who is obliged?

- Electricity and Gas retailers in SA
- Obligation if supply > 5,000 residential customers

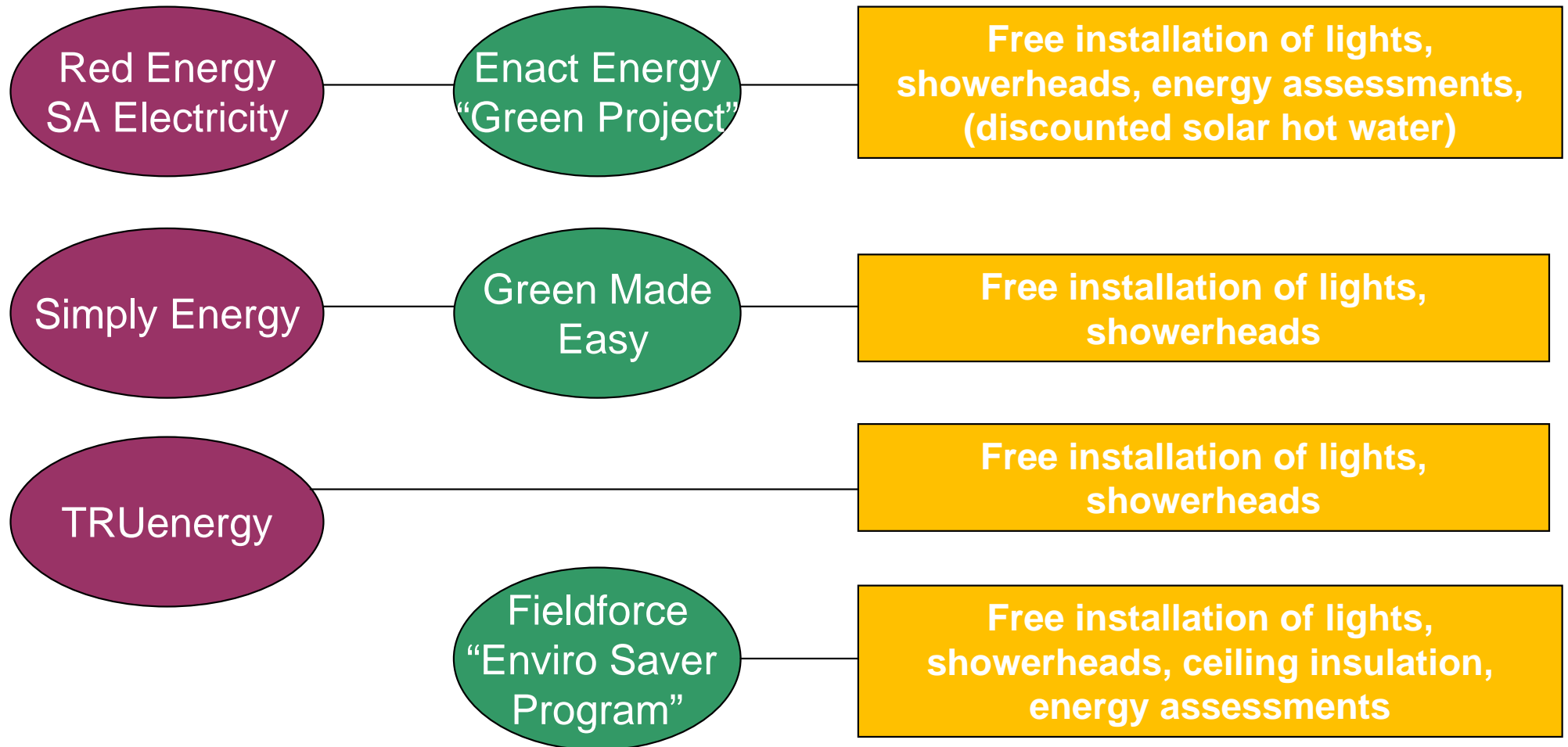


- ESCOSA administers

# REES Activities



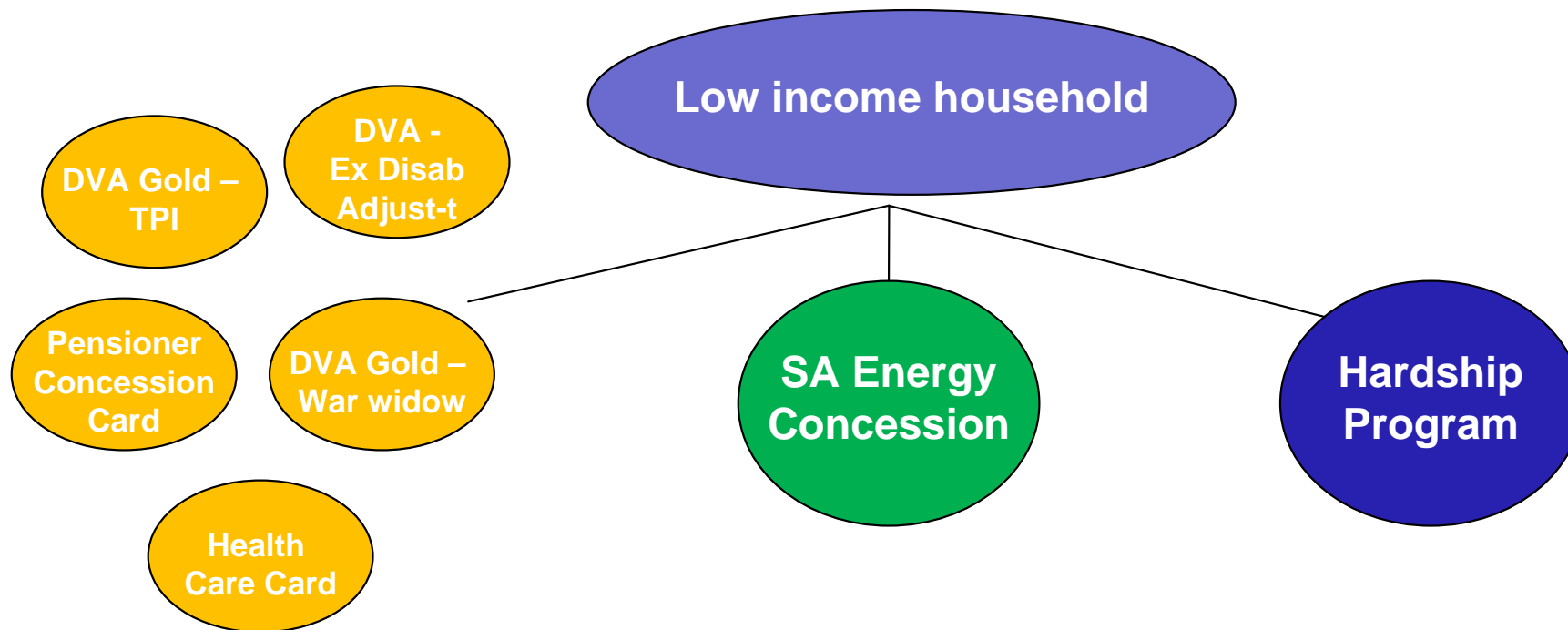
# REES - households experience



**Sourced from some smaller retailers' websites - visit websites for more**



# REES - low income households



More than **275,000** households in SA fall within this definition

# Renewable Energy Certificates (RECS)



- a tradeable currency : 1 REC = 1MWh of ren.gen.
- typical solar HWS : “creates” ~ 15 to 25 RECs
- current value : approx \$40 to \$50 each (~\$1000)
- aggregated & traded, of value to large retailers
- typically given as discount on installed cost of SHW or PV



a very complex issue : see [www.orer.gov.au](http://www.orer.gov.au)

summary :

- be aware of the value of your RECs.
- shop around and find the best overall deal

# EXAMPLE – heat pump HWS



<i>Typical Installed Price</i>	<b>\$3,900</b>
- <i>Federal Govt Rebate</i> <i>(if replacing elect HW)</i>	<b>-\$1,600</b>
- <i>State Govt Rebate</i> <i>(Low income only)</i>	<b>-\$500</b>
- <u><i>RECs</i></u>	<b>-\$1,000</b>
<i>approx TOTAL installed COST</i>	<b>\$800</b>

*maybe less other e.g. REES +/- or local govt*

- *Less than the cost of replacing with conventional electric*
- *Substantially less running costs per annum*

# New Hot Water Rules

*Since July 2009, new hot water systems installed in SA homes must be low emission types. This includes replacing existing systems (in particular electric storage hws) which are no longer working with*

- *Electric Heat Pump*
- *Solar (electric boost)*
- *Solar (gas boost)*
- *Gas instantaneous or Gas storage*

*Depending on location/existing systems some exemptions may apply*

# Home Energy Audits

## What's using electricity in your home?

The Home Energy Toolkit is an easy to use self audit kit to help identify ways to reduce energy costs at home.

The toolkit contains:

- Power-Mate
- Infrared Thermometer
- Compass
- Stopwatch
- Room Thermometer
- Energy Friends Audit Manual
- Home Energy Worksheets

Available for loan from over 100 SA public libraries



# Energy Friends

*Help Householders “be energy smart”*

- *Community Focus*
- *Trained 700 Energy Friends*
- *Participants Helping People in their Community*
- *Community, Conservation etc Groups*
  - *Lutheran Community Care*
  - *Anglicare*
  - *Mission Aust*
  - *Conservation Volunteers Australia*
  - *Local Govt – Home Assist*
  - *Resident Action Groups*



# ***Further Information:***

***[www.sa.gov.au/energysmart](http://www.sa.gov.au/energysmart)***

***energy advisory service : 8204 1888***



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