



SmartWays.

Practical solutions to help reduce your power bills.





We all know how important it is to save energy these days. Not just for our wallets but for our planet too.

After all, the less energy we use to heat, light and power our homes, the less harmful emissions we release into the environment.

That's why Synergy has put together this special SmartWays brochure, filled with simple tips on how to choose and use the most energy efficient appliances for every room in your home.

Have a read through it... and encourage the rest of your family to do the same.

And for more energy savings solutions, visit synergy.net.au/residential



A

Fridge A

Size – 389 litres

Stars – 1½

Energy consumption figure
616 kWh/year

Approximate running cost
for 1 year – \$135

To calculate the annual running cost of an appliance, simply multiply the kWh per year by your electricity tariff, eg: 391 kWh/year x 21.87 cents (inc. GST) = \$85.51

Home Plan (A1 price) – correct as at 1 July, 2011

First things first: Always check out the stars.

When you're shopping around for any electrical appliance, always be sure to look for the Energy Rating label.

Basically, the more stars, the more energy efficient the appliance will be.

To see how this works, look how 4-star Fridge B would save around \$79 in annual running costs when compared to 1½-star Fridge A below.



B

Fridge B

Size – 301 litres

Stars – 4

Energy consumption figure
255 kWh/year

Approximate running cost
for 1 year – \$56



SmartWays to save
in the kitchen.

Fridge & freezer

- Defrost your freezer when the ice reaches 5mm thick or more.
- Vacuum the dust from the fridge condenser coil at the back of the fridge.
- Check the fridge door seal for air leaks.
- Listen carefully to ensure the fridge's on/off cycle is operating.
- Thaw frozen food in the fridge well in advance of cooking.

Kettle, jugs & pans

- Use your kettle, not the stove, to boil small amounts of water.
- Always use cold water to fill jugs and kettles – and only use the amount of water you need.
- Use flat-based saucepans with tight-sealing lids.



Oven & microwave

- Check your oven seal is in good condition.
- Avoid opening the oven door when cooking (this causes a loss of temperature).
- For faster cooking and precise temperature control, consider a ceramic or induction cooktop.
- Regularly clean the grease vent in your exhaust fan to keep it running efficiently.
- Use your microwave when appropriate for cooking, and defrost food in the fridge well in advance of cooking.

Dishwasher

- Make sure your dishwasher is full before you use it.
- Use a cold water connection for your dishwasher.

How much your appliances cost to run

\$ Cost/Bill (2 Months)

\$ Annual cost

Refrigerators & Freezers (24hrs/day)

Fridge/Freezer Frost-Free, Medium	16.44	98.63
Fridge/Freezer Cyclic Defrost, Medium	23.69	142.16
2 Door Side-by-Side, Large with Ice Maker	31.78	190.71
Bar Fridge	2.88	17.28
Chest Freezer, Manual Defrost, Medium	15.16	90.98

General Kitchen Appliances

Toaster (5 mins/day) (1100W)	1.22	7.32
Food Processor (3 mins/twice a week)	0.09	0.51
Cappuccino Maker (15 mins/day) (1260W)	4.19	25.15
Kettle 1.8 L (10 mins/day) (2400W)	5.32	31.93
Juice Extractor (3 mins/twice a week)	0.03	0.18
Food Steamer (20 mins/twice a week)	0.89	5.32
Dishwasher (1 hr/day) (hot wash using cold tap connection, 3 Star) (2200W)	29.27	175.62

Cooking (30 mins/day)

Induction Cooktop (7400W)	49.23	295.35
Electric Solid Cooktop 4 Plate (5550W)	36.59	219.52
Electric Oven, Conventional with/Grill	15.97	95.79
Electric BBQ	2.28	13.68
Microwave, Large (1200W)	7.98	47.90
Deep Fryer (20 mins/twice a week)	2.91	17.49
Electric Wok (20 mins/twice a week)	2.53	15.20

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SmartWays to
save in the laundry
& bathroom.

Laundry

- Set the hot water-heater thermostat to no more than 65°C.
- Make sure the hot water system outlet pipe is well insulated.
- Use cold water in the washing machine whenever possible.
- Repair leaking taps.
- Clean the lint filter on your dryer after each load, and use a clothes line on fine days.
- Consider installing a timer on your solar hot water-heater.

Bathroom

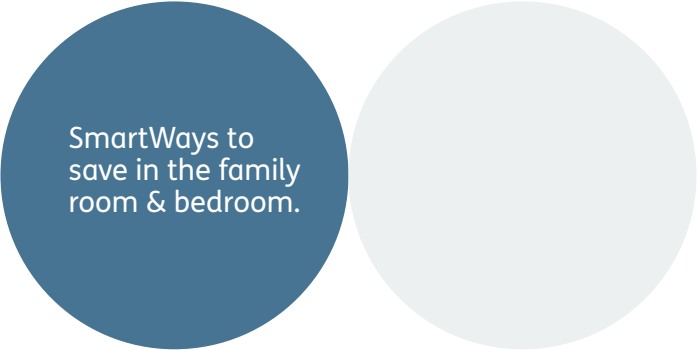
- Take shorter showers. Reduce your shower time from eight minutes to four.
- Use a flow restriction valve or shower-rose if you have a storage or off-peak hot water system. This will save water and electricity without changing the pressure or flow pattern.
- Consider installing an off-peak, electric storage hot water system, combined with a Synergy SmartPower® meter, to take advantage of off-peak rates.

How much your appliances cost to run

	\$ Cost/Bill (2 Months)	\$ Annual cost
Hot Water Systems & Laundry		
Electric Instantaneous (2 hrs/day) (7000W)	186.26	1117.56
Electric Instantaneous, High Efficiency (2 hrs/day) (4000W)	127.72	766.32
Electric Storage, 125 L (24 hrs/day)	170.29	1021.77
Solar Electric Boosted 2 Panel, 300 L (24 hrs/day)	53.22	319.30
Washing Machine, Large Top Loader (30 mins/day) (1100W)	7.32	43.90
Washing Machine, Front Loader (30 mins/day) (900W)	5.99	35.92
Clothes Dryer, Large (30 mins/day) (2400W)	15.97	95.79
Iron (10 mins/day) (1300W)	2.88	17.30
Vacuum Cleaner Average Model (20 mins/week)	0.89	5.32
Bathroom Lighting & General		
Four Bulb Bathroom Heat/light/fan (2 hrs/day)	31.93	191.58
Two Bulb Bathroom Heat/light/fan (2 hrs/day)	17.30	103.77
Hair Straightener (20 mins/twice a week)	0.04	0.22
Hair Dryer (20 mins/twice a week)	2.07	12.42
Foot Spa (10 mins/week)	0.01	0.08
Spa (indoor), 1300 L (30 mins/day)	23.95	143.69

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SmartWays to save in the family room & bedroom.

Family room

- Never overheat your room; increasing the thermostat setting by just one degree can increase running costs significantly.
- Close curtains to prevent heat loss in winter and heat gain in summer.
- Install insulation in your ceiling.

Bedroom

- Switch on your electric blanket an hour before going to bed, and switch off when you get in bed.
- Adjust the thermostat on your electric heater to the minimum comfort setting. The aim is to take the chill off the air, rather than heat the room.
- Avoid the use of fan heaters for prolonged periods.
- If you have a water bed, adjust the electric heater thermostat to suit the season, and always keep the bed well covered.

How much your appliances cost to run

\$ Cost/Bill (2 Months)

\$ Annual cost

Heating and Cooling

Reverse Cycle Air-conditioning—Split System (4 hrs/day)

Cooling 1 HP (eg bedroom unit) 3.5 star	133.04	798.26
Heating 1 HP (eg bedroom unit) 3.5 star	154.33	925.98
Cooling 2.5 HP (eg living room unit) 2.5 star	149.01	894.05
Heating 2.5 HP (eg living room unit) 2.5 star	149.01	894.05

Ducted Whole of House (Reverse Cycle or Evaporative)

Costs vary greatly depending on size, model and star rating. Please refer to manufacturer's Input Wattage and use the calculation provided in this brochure.

Bedroom, Entertainment & Office

Clock (24 hrs/day)	1.92	11.49
Electric Blanket (double) (1 hr/day)	1.86	11.18
DVD (3 hrs/day)	0.60	3.59
Video Cassette Recorder (3 hrs/day)	2.39	14.37
Radio (3 hrs/day)	0.80	4.79
Stereo System (3 hrs/day)	2.39	14.37
Flat Screen TV (76 cm) (5 hrs/day)	16.63	99.78
Plasma TV (107 cm) (5 hrs/day)	20.62	123.73
LCD TV (107 cm) (5 hrs/day)	14.97	89.80
Halogen Desk Lamp 20W (30 mins/day)	0.13	0.80
Computer (2 hrs/day) (Desktop with LCD Monitor)	3.99	23.95
Fax (2 hrs/day)	3.06	18.36
Photocopier (2 hrs/day)	35.92	215.53
Photocopier (standby) (2 hrs/day)	1.28	7.66
Printer (2 hrs/day)	0.45	2.71
Scanner (2 hrs/day)	0.21	1.28

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A hand is shown pointing at a white remote control for an air conditioner. The remote is mounted on a wall. The background is a blurred indoor setting. The text 'SmartWays to save on air-conditioning.' is overlaid on a dark blue circular graphic on the left side of the image.

SmartWays
to save on
air-conditioning.

Air-conditioning

- Set your air-conditioner to 24°C as each 1°C cooler can add as much as 10% to your cooling costs.
- Clean your air-conditioning filter regularly.
- On hot days close windows, doors, blinds and curtains early in the morning until the outside temperature cools down.
- Turn your air-conditioner on early in the day rather than waiting until your home heats up.
- Consider installing external shading, like awnings or shutters, to help prevent the sun's rays from heating windows.
- Remember to install the outdoor air-conditioner unit on the shady side of your home.
- Don't forget to close off areas that are not being used.

SmartWays
to save the
environment.

- Switch from incandescent globes to Compact Fluorescent Light globes (CFLs).
- CFLs last 8-10 times longer than incandescent globes, create the same amount of light, and use only around a third of the energy.
- By switching to CFLs, the average home can save more than \$80 each year.

Room	Incandescent	CFL	Savings	
	# and Size	# and Size	Bill Savings Per Year	Reduction CO ₂ kg/yr
Kitchen	1x100W	1x25W	25.54	109
Living room	2x75W	2x18W	38.32	165
Bedroom	1x60W	1x15W	15.33	65
Passage	1x40W	1x12W	10.22	41
TOTAL			89.41	380

Estimates based on 4 hrs/day, electricity tariff of 21.87c/kWh (inc. GST) and green house intensity of 0.93 (SWIS factor for full fuel cycle) kg CO₂ e/kwh. Information source from the NGA factors report, July 2010 published by the Department of Climate Change and Energy Efficiency.

SmartWays to save outdoors.

\$ Cost/Bill
(2 Months) \$ Annual
cost

Outdoor

Bug Zapper (15 mins/twice a week)	0.01	0.09
Electric Drill (5 mins/month)	0.03	0.16
Chainsaw (10 mins/month)	0.13	0.80
Garden Vacuum (20 mins/week)	0.98	5.89
Lawn Mower (30 mins/fortnight)	0.55	3.28
Pond Pump (8 hrs/day)	1.06	6.39
Saw, Portable (10 mins/month)	0.07	0.44
Spa (outdoor), 1300 L (30 mins/week)	3.42	20.53
Swimming Pool Pump (IHP) (7 hrs/day)	105.24	631.42
Welder (20 mins/month)	0.35	2.13
Floodlights (small) (1 hr/day) (150W)	2.00	11.97
Floodlights (large) (1 hr/day) (300W)	3.99	23.95

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For more energy saving tips visit synergy.net.au/save

Visit synergy.net.au/residential

for more information on



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Concessions and Rebates