Home Energy Audit Toolkit worksheet

Heating and cooling

Which direction do the windows in your rooms face?

Room	Direction	Actions
e.g. Bedroom	*West*	*Close curtains on summer days to keep the room cool*
e.g. Family room	*North*	*Let winter sun shine through windows to help heat room*

Your heating and cooling appliance energy use and costs

Use the Power-Mate to find out hourly energy use and costs; see page 11 of the audit guide for instructions. Use a calculator and the sums below to calculate weekly or quarterly costs.

Weekly cost = hourly cost (¢/kWh) x hours used per week
Quarterly cost = hourly cost x hours used per week x 13

Appliance	Hourly use (kWh)	Hourly cost	Weekly cost	Quarterly cost

My energy-saving actions

- ☐ Check insulation
- ☐ Check for draughts
- ☐ Only heat or cool rooms in use
- ☐ Set the heating temperature lower e.g. 18°C to 21°C
- ☐ Set the cooling temperature higher e.g. 24°C to 27°C
- ☐ Consider fans to help with cooling

Water heating

Check your shower flow rate

Shower 1	Water collected in 10 seconds		L
	x 6 to get flow per minute		L/min
Shower 2	Water collected in 10 seconds		L
	x 6 to get flow per minute		L/min

How long are your showers?

Person	Day 1	Day 2	Day 3	Average length	Actions
e.g. Dad	*12 min*	*14 min*	*15 min*	*13.5 min*	*Shave at sink instead of in shower*

My energy-saving actions

- ☐ Install water efficient shower head if flow rate is more than 9L per minute
- ☐ Take shorter showers
- ☐ Lag external hot water pipes
- ☐ Make a water heater replacement plan

Other appliances

Check appliance energy use and costs

Use the Power-Mate to find out hourly energy use and costs; see page 11 of the audit guide for instructions. Use a calculator and the sums below to calculate quarterly costs.

Quarterly cost = hourly cost (¢/kWh) x hours used per week x 13.

Appliance	Hourly use (kWh)	Hourly cost	Quarterly cost

You can also calculate the running cost of an appliance using input power and your energy tariff; see page 18 of the audit guide.

My energy-saving actions

- ☐ Use the clothes line instead of the dryer
- ☐ Use the washing machine on cold or cool cycles
- ☐ Only use washing machine or dishwasher when full
- ☐ Turn off stand-by power

Fridges and freezers

Fridge and freezer energy check-up

Use the Power-Mate for 24 hours to check your fridge and freezer energy use and costs; see pages 19 to 21 of the audit guide for instructions.

	Use the thermometer			Use the Power-Mate	
Appliance	First reading	Second reading	Door seals ok	Quarterly energy	Quarterly cost
e.g. Fridge 1	*5°C*	*6°C*	*Y*		

My energy-saving actions

- ☐ Turn off additional fridges and freezers
- ☐ Retire old fridges and freezers
- ☐ Adjust fridge temperature to between 3°C and 5°C
- ☐ Adjust freezer temperature to between -15°C and -18°C

Lighting

How many old, inefficient lights are in your home?

Bulb type	Number	Average wattage
Incandescent		
Halogen downlights		

My energy-saving actions

- ☐ Turn off lights
- ☐ Replace old bulbs with energy efficient bulbs

For help and advice using the toolkit, or for extra copies of this worksheet, contact the Waratah-Wynyard Council

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