

# Home Electrical Energy Use Audit Activity Sheet

## 1) How electrical energy is used in my home.

- a) List the major appliances in your home (fridge, TV) indicating how many of each you have and if they are on a timer (pool pump).


- b) Leaving appliances on standby is called **vampire power**.  
List all the appliances in your home that are left in standby mode.


Would it make a difference to your power bill if you reduced vampire power by turning off appliances rather than leaving them in standby mode? \_\_\_\_\_. Explain.

- c) Complete the table to record the use of lights in your home. Record this over at least three nights.

Number of lights			
ON	on that do not need to be on	OFF	TOTAL
Percentage of lights wasting energy	<div> <div>=</div> <div> <div>lights on that do not need to be on</div> <div>Total number of lights</div> </div> <div>x 100 =</div> </div>		

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Would it make a difference to your power bill if you and other members of your family turned off lights when they were not required? \_\_\_\_\_. Explain.

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## 2) How electrical energy use can be better managed in my home.

- a) Create a list of energy saving tips by visiting the Synergy Save Energy Tips webpage @ <https://www.synergy.net.au/Your-home/Energy-tips> and reading the family tips and watching the available videos.

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- b) Write a plan to improve your household energy use.

Use the data you collected in (1) a), b) and c), and tips from the Synergy Save Energy Tips webpage @ <https://www.synergy.net.au/Your-home/Energy-tips>.

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## How to read the Synergy electricity bill

You will need a copy of your Synergy household energy bill.

Your parents either receive the bill in the post or can access it through their account online.

1) View the video <https://www.synergy.net.au/Your-home/Help-and-advice/Bills/Understandingmybill>. You will need information from this video to help answer the following questions.

2) Using the graph of energy usage on your bill to answer the following questions.

a) We used (more / less / the same amount) of energy this bill compared to the last bill?

\_\_\_\_\_

b) Explain any differences in energy usage from this bill and your last bill.

\_\_\_\_\_  
\_\_\_\_\_

c) We used (more / less / the same amount) of energy this bill compared to the same time last year.

\_\_\_\_\_

d) Explain any differences in energy usage from this bill to the same time last year.

\_\_\_\_\_  
\_\_\_\_\_

e) What is your average daily usage? \_\_\_\_\_

f) What is your average daily cost? \_\_\_\_\_

# Home Electrical Energy Use Audit Activity Sheet

## 3) Solar Electricity

- a) Do you have solar PV panels? \_\_\_\_\_
- b) Do you have a battery to store unused solar energy? \_\_\_\_\_
- c) If you have solar panels, then you are a renewable energy customer.  
Turn to the back of your electricity bill. It will show a usage summary showing the number of units you exported back into the grid system in kilowatt hours (kWh).

How many units (kWh) did you export?

Net Export Peak \_\_\_\_\_

Net Export Off Peak \_\_\_\_\_

## 4) Compare your electricity bill with other households!

How much was your last bill? \$\_\_\_\_\_.

Use this amount to compare your energy bill (and usage) with other similar Perth households using the calculator <https://www.synergy.net.au/Your-home/Energy-tips/Compare-your-bill#>

How did you fare? Record your results of the comparison in the space below.

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## Energy management

- 1) Describe the 4 different energy plans offered by Synergy.  
<https://www.synergy.net.au/Your-home/Energy-plans>

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2) Refer to the back page of your energy bill. What energy plan (tariff) is your house on?

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3) Consider the appliances and energy use data that you collected in the worksheet **Energy use and management in the home - How energy is used in my home.**

Using this information discuss with your family to determine if you have the right energy plan for your household.

Make notes of your discussion and report on your decision.

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Smart Meters

1) What is an Advanced Meter (Smart Meter) <https://www.synergy.net.au/Your-home/Manage-account/Track-your-usage/Advanced-metering>

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2) Do you have a smart meter? \_\_\_\_\_

3) What advantages would an advanced meter give households when seeking household energy savings?

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