

Investigation 1 TV powered by the wind and sun

Task: How much GreenPower would you need to run your TV?

If we can have a wind-powered tram, why not a wind-powered TV (or computer)?

Every house can have a green-powered TV by purchasing GreenPower for all or part of their electricity.

If you know how much electricity your TV uses, you can find out how much GreenPower you will need.

What you need

Your last electricity bill or an estimate of the last bill.

Step 1

Estimate the hours that your TV will be on each day and enter in the boxes below. Add the number of hours per day to calculate your weekly use and enter your total.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Total

Step 2

Use the Origin Energy efficiency calculator to find out the cost of watching TV.

1. Go to www.originenergy.com.au/calculator
2. Select 'My living room'.
3. Insert the hours per week for the TV.
4. Record your results in this table.

Hours per week	Cost per qtr (\$)	Cost per year (\$)	CO ₂ emissions per year (kg)

Step 3

Find out how much GreenPower is needed. Households can buy GreenPower for all or part of their electricity. This can range from 20 per cent to 100 per cent GreenPower.

Using your household bill and the information from the table above, fill in your answers below.

	Answer	Hint
Cost of TV per qtr		<i>Get this from step one</i>
Total household bill per qtr		<i>Get this from your last bill or guess</i>
Percentage of bill used for TV		$\frac{\text{Cost of TV} \times 100}{\text{Total bill}}$

Investigation 1 *continued*

TV powered by the wind and sun

2 / 2

In most households the electricity used watching TV would be less than 20 per cent of the total bill. How much was yours?

My TV equals _____ per cent of my household electricity use.

Step 4

Investigate the options for buying GreenPower.

The first step in buying GreenPower is to look around and see what plans are being offered by electricity companies in your area.

- GreenPower costs more than regular electricity.
- Many electricity companies have GreenPower plans that start at \$1 per week extra.
- Some plans are not what they seem. Visit Green Electricity Watch www.greenelectricitywatch.org.au for an independent ranking of GreenPower products.
- The costs can vary a lot, so it's good to look around for a deal that suits your household needs.
- Origin has a 20 per cent GreenPower plan that costs an extra \$1 per week no matter how much power you use.

Buying 20 per cent GreenPower would make your TV a green-powered TV for \$1 extra per week!