

SCHOOLGEN DATA WHAT DOES IT TELL US?

Teacher-led Activity

Genesis Energy has installed solar panels at selected Schoolgen schools across the North Island of New Zealand. This activity encourages the students to learn about the data from the solar panels and how weather changes the data. The data tells the students how much electricity the solar panels are generating. You could adapt this activity for data generated over a month.

Schools do not need solar panels to use this activity as data from any of the Schoolgen schools can be used.

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WHAT YOU NEED

- [Weather Journal](#) activity sheet.
- [Schoolgen Data Bar Graph](#) activity sheet.

MANAGING THE ACTIVITY

Weather Journal

1. In the Weather Journal, ask the students to write down what the weather is like every day for a week.
2. Find out how much electricity the solar panels are generating for the same week. Get the data from the Schoolgen website at www.schoolgen.co.nz.
3. Ask the students to write down the data for each day in the Weather Journal.

Schoolgen Data Bar Graph

4. Ask the students to fill in the bar graph using the data from the Weather Journal. The data shows the total amount of electricity being generated over the week.

REFLECTION

Using the results from the Weather Journal and the Schoolgen Data Bar Graph, the students reflect on what they have learned about solar panels.

- Which day did the solar panels generate the most electricity?
- Why do you think this was?
- Which day did the solar panels generate the least electricity?
- Why do you think this was?

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WEATHER JOURNAL

COMPLETE THE JOURNAL USING THE SYMBOLS.	MONDAY Date:	TUESDAY Date:	WEDNESDAY Date:	THURSDAY Date:	FRIDAY Date:
<p>Are there clouds in the sky?</p> <ul style="list-style-type: none"> • No clouds <input type="checkbox"/> • Some clouds <input type="checkbox"/> • Lots of clouds <input type="checkbox"/> 					
<p>Is it raining?</p> <ul style="list-style-type: none"> • No rain <input type="checkbox"/> • Some rain <input type="checkbox"/> • Lots of rain <input type="checkbox"/> 					
<p>What is the temperature?</p> <ul style="list-style-type: none"> • Cold <input type="checkbox"/> • Warm <input type="checkbox"/> • Hot <input type="checkbox"/> 					
<p>Fill in the row with the data from the Schoolgen website. The data tells you the total amount of electricity the solar panels generated each day.</p>	_____ kWh	_____ kWh	_____ kWh	_____ kWh	_____ kWh

