



Solar SETS Lesson Plans

Step 1

Solar SETS

- HOME
- FIND A SCHOOL
- LESSON PLANS
- FUN FACT SHEETS
- ENVIRO GAMES & ACTION
- ABOUT US
- JOIN SOLAR SETS NOW!
- INSTALLERS INFORMATION

Save your school
an extra \$5,000
(and 50 tonnes of GHG)
each year!


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Lesson Plans

Themes	Topics
Energy	<ul style="list-style-type: none">Sun - Source of LifeEnergy in our bodiesEnergy in Eco Systems services
Renewable Energy	<ul style="list-style-type: none">Solar, Hydro and WindOther non polluting ideas
Non-renewable Energy	<ul style="list-style-type: none">An historical look at coalFossil Fuels
Weather	<ul style="list-style-type: none">Energy in the atmosphereClimate and weather
Student Action	<ul style="list-style-type: none">Getting the team rightEncouraging othersDiscovering the hotspots of energy use in our schoolUsing Solar SETS
Energy Conservation	<ul style="list-style-type: none">Creating less waste in our schoolCreating less waste at homeBecoming Energy Smart
Climate Change and Sustainable Futures	<ul style="list-style-type: none">Taking a stanceDeciding what the future may look likeCreating insurance for a positive future
Assessment and Data	<ul style="list-style-type: none">Using SETS for NumeracyUsing SETS for LiteracyOther SETS ideas
Green and Black power	<ul style="list-style-type: none">How do our PVs work?Understanding Solar SETS informationUsing graphs to monitor power inputs and outputsAdjusting the system to get results



Step 2



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Creating less waste in our school

Early Years	Junior Years	Middle Years	Essential Learning Synergies	Possible turning in inquiry or critical questions	Investigation & Tasks
✓	✓	✓	Social Learning Literacy Science SoSE Thinking Civics Numeracy ICT The Arts Media	What is the definition of waste? What effect does wasting energy have on the natural environment, humans and animals? How can energy be wasted?	Research Project Activity Sheet Tune In School Greenhouse Saver

AuSSI Alignment
 Curriculum, Sustainability Project, SEMP, Data Management, Student Action Teaming, Wider School Engagement,

Creating less waste at home

Early Years	Junior Years	Middle Years	Essential Learning Synergies	Possible turning in inquiry or critical questions	Investigation & Tasks
✓	✓	✓	Social Learning Literacy Science Civics Numeracy Media	How is wasting energy at home different to at school? How is it the same? What is the biggest user of wasted energy at your house?	Research Project Activity Sheet Tune In School Greenhouse Saver


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Becoming Energy Smart

Early Years	Junior Years	Middle Years	Essential Learning Synergies	Possible turning in inquiry or critical questions	Investigation & Tasks
✓	✓	✓	Literacy Science SoSE Thinking Numeracy ICT The Arts Media	What do we need in order to be smart at using energy? Where would be an easy place to start?	Project Activity Sheet Tune In

AuSSI Alignment
 Curriculum, Sustainability Project, SEMP, Data Management, Student Action Teaming, Wider School Engagement,

Step 3



Solar SETS Educational Reviewer

Becoming Energy Smart

Project

Becoming energy smart at our schools.

One of the next steps to becoming Energy Smart is working out what uses energy and where. You need to do some field research to gain a better idea of what your school energy profile looks like so that you can take some focused action on reducing waste and increasing energy use all together. This 'profile' is different from one school to the next but here are some activities to help you develop your energy use skills.

You will need a few gadgets to help you complete the project including:

- A powermate or plug in multifunction energy meter
- A transformer
- A tape measure

NOTE: All of these are available from Power Savers - www.2020powersavers.com.au

The Energy Meter and Standby Power

Important note: Make sure all appliances are turned off or the power (not before plugging you in) is off.

How to use a multifunction energy meter:

1. First, if you are using a new energy meter, make sure the battery is properly installed if it has one. The ones include removing the plastic caps from the contacts in the battery well. Make matters just plug and go!
2. Second, turn you have the power point switch turned off, plug in the meter to the power point and then put the appliance plug into the meter.
3. Switch on the power of the power point!
4. Use the function button on your meter to show the desired readout unit - this may be watt, greenhouse gas, cost etc.
5. Select both for the exercise.
6. Remember to switch off of the power point before removing the multifunction energy meter.

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