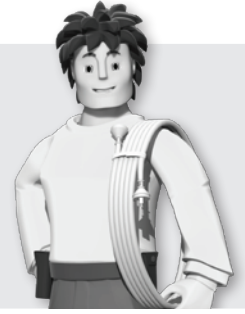


Carbon Tradies: Worksheet 7 – Alec the Electrician

Go to **www.missionco2.com**, click on Play and watch the introduction to meet the Carbon Tradies. Enter your name to begin.

Select Alec the Electrician and watch his introduction for information that will help you with the following questions and activities.



1. Alec recommends using green power. What is green power and how does it work?

*One source of information is **www.greenpower.gov.au***

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2. Find out which energy provider supplies your home with electricity and what percentage of the power comes from renewable energy sources. You may need to contact your energy provider or go to its website.

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3. On a map of your state mark in green any major sources of renewable energy (power generating plants) and in red any major sources of non-renewable energy.

*One source of information is **www.en.wikipedia.org/wiki/Category:Power_stations_in_Australia***

4. On a map of your local area mark in any solar powered devices or buildings with solar power panels of their rooves. Try to find at least five.

5. List the government incentives (if any) that are provided to assist people to install a solar power system on their roof.

*One source of information is **www.environment.gov.au/rebates**. Alternatively you could ask your energy provider or local council.*

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6. In what ways can Alec save the use of energy (and hence save you money) with the installation of particular light bulbs and switches?

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7. How would the energy rating on an electrical appliance help you when buying a new appliance?

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Carbon Tradies: Worksheet 7 – Alec the Electrician

8. Before you play the game you are asked five questions. Each time you play the questions will vary. Answer the following questions correctly and use your answers to get more time to play the game:

(a) Name the four main forms of renewable energy.

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(b) Give an example of where halogen light globes are suitable to use in the home. Explain why.

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(c) What are the advantages of compact fluorescent lights?

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(d) If you leave the room even just for a few minutes should you turn off the lights or leave them on? Explain why.

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(e) Name five appliances that use standby power when not turned off at the switch.

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(f) Refrigerators are usually left on. Why? Do they use standby power?

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(g) What percentage of time do most households leave their appliances on to use standby power?

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(h) What type of TV consumes less energy and how much less energy is consumed?

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(i) Where should you locate work areas like the kitchen sink and desks to save energy and money?

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(j) When choosing a lampshade what should you consider to save money?

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9. Go to the Mission CO2 Home page, click on Fun Stuff and Meet the 'Carbon Tradies' and select Alec. What suggestions does he have that will help you reduce the amount of energy or power you use?

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Further information

For more information on how you can save water at home, work or school visit www.savewater.com.au or contact your local water provider.

