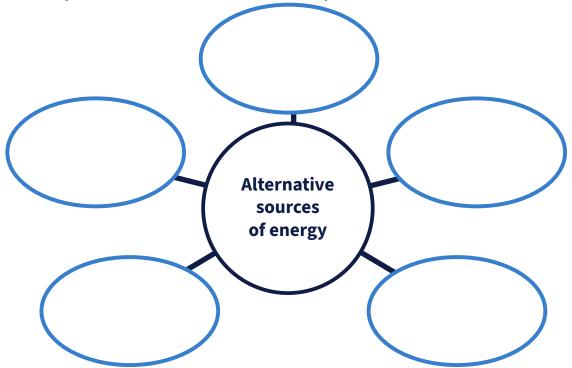




Level 1: Elementary / Pre-Intermediate

1 Warmer

a. Work with a partner to add information to the mind map.



2 Key words

a. Fill the gaps in the sentences using these key words from the text. Then, find and highlight them to see them in context.

alternative cargo dependence estate investors

- goods being transported from one place to another ______
- 2. a different option or possibility _____
- 3. a large piece of land in the countryside, usually owned by a person, family or organisation, and used to make money _____
- needing something or someone for support or help ______
- 5. people who put money into something expecting to receive profits _____



b.



How coconuts are starting to fuel parts of Papua New Guinea

Level 1: Elementary / Pre-Intermediate

profitable	renewable	shift	sustainable	widely
6. something that can be u	used a lot because	it is always av	ailable	
7. in many places or by a l	ot of people			
8. something that makes n	noney			
9. something that can be r	naintained			
10. change				
Complete the sentences of form of the word. 1. They own a very				
2. Do you know of any sou				
3. I don't like this idea. Ca				
4. She doesn't have enoug				ouple of





Level 1: Elementary / Pre-Intermediate

Bethanie Harriman 10 May, 2024

- There are hundreds of coconut trees on Karkar Island in Papua New Guinea.
- 2 Decades ago, the fruit was a profitable export, but it has become less valued in international markets over the years. Now, the small island is using coconuts for something else.
- 3 Coconut oil is now used to produce biodiesel, a renewable fuel from biological sources, such as vegetable oils or animal fats. On Karkar, that fuel helps power schools, hospitals, and cargo ships.
- 4 It is made at the Kulili Plantation, a large estate filled with coconut trees and cocoa plants. Derek Middleton, the Managing Director at Kulili, says the plant produces 600,000 litres of coconut-based biofuel each year.
- 5 The project began in 2007, when Kulili developed a small plant to produce coconut biodiesel. Over the years, it has become successful, and the operation has grown ever since. Middleton is now trying to expand the project and increase production.
- 6 Other countries in the Pacific have developed similar projects and done research into using coconut biodiesel as an alternative to traditional fuels.
- 7 Coconut biodiesel has often replaced diesel in Karkar, and it is cheap to buy.
- 8 Now, the country's leading science institute is researching how coconut biodiesel could be used more widely as an alternative fuel.
- 9 Middleton says expanding the local industry would reduce dependence on expensive fuel imports, but finding investors to grow the operation has been difficult.
- 10 Economist Maholopa Laveil says that if the investments are profitable and sustainable in Papua New Guinea, they will have a positive social impact.
- 11 Laveil says developing biofuels could benefit the region, including the potential to employ more people.

- 12 The Kulili project could be an example for the region, Laveil says, describing it as a "good example of the shift to green energy, and a locally driven alternative, and hopefully a successful business model".
- 13 He says getting enough volume and high enough quality to export could take years and significant investment, but local government support should be possible.
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Level 1: Elementary / Pre-Intermediate

3 Comprehension check

- a. Are these sentences True (T) or False (F) according to the article? Correct any that are false.
 - 1. Coconuts are more expensive now than in the past.
 - 2. Coconut oil is an energy source in Papua New Guinea.
 - 3. The production of coconut biodiesel is slower now.
 - 4. Other countries have similar plans.
 - 5. Biodiesel is less damaging to the environment.
 - 6. Exporting biodiesel is not possible.

4 Key language

a. Read the sentences from the text and answer the questions.

Decades ago, the fruit **was** a profitable export, but it **has become** less valued in international markets over the years.

The project **began** in 2007, when Kulili **developed** a small plant to produce coconut biodiesel. Over the years, it **has become** successful, and the operation **has grown** ever since.

- 1. Which verb phrases in bold refer to actions and events that started and finished in the past? Which words or phrases helped you decide?
- 2. Which verb phrases in bold refer to actions and events that started in the past and continue up to the present? Which words or phrases helped you decide?
- b. Complete the sentences with the correct verb form in brackets (past simple or present perfect). Pay attention to the words and phrases that help you.

1. They (start)	producing biodiesel in 2004.
2. (told)	him this was a good idea many years ago.
3. She (work)	on this project for three years now.
4. We (buy)	this type of fuel since 2022.
5. I (learn)	about this new type of fuel at a conference last month







Level 1: Elementary / Pre-Intermediate

5 Discussion

- a. Discuss these statements.
 - · 'Governments should spend more money finding new energy sources'.
 - · 'Alternative fuels will never fully replace oil as an energy source.'
- 6 In your own words
- a. In pairs or small groups, do online research, find information about another renewable energy source, and prepare a presentation including its benefits and challenges.
- b. Report your findings to the class.



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