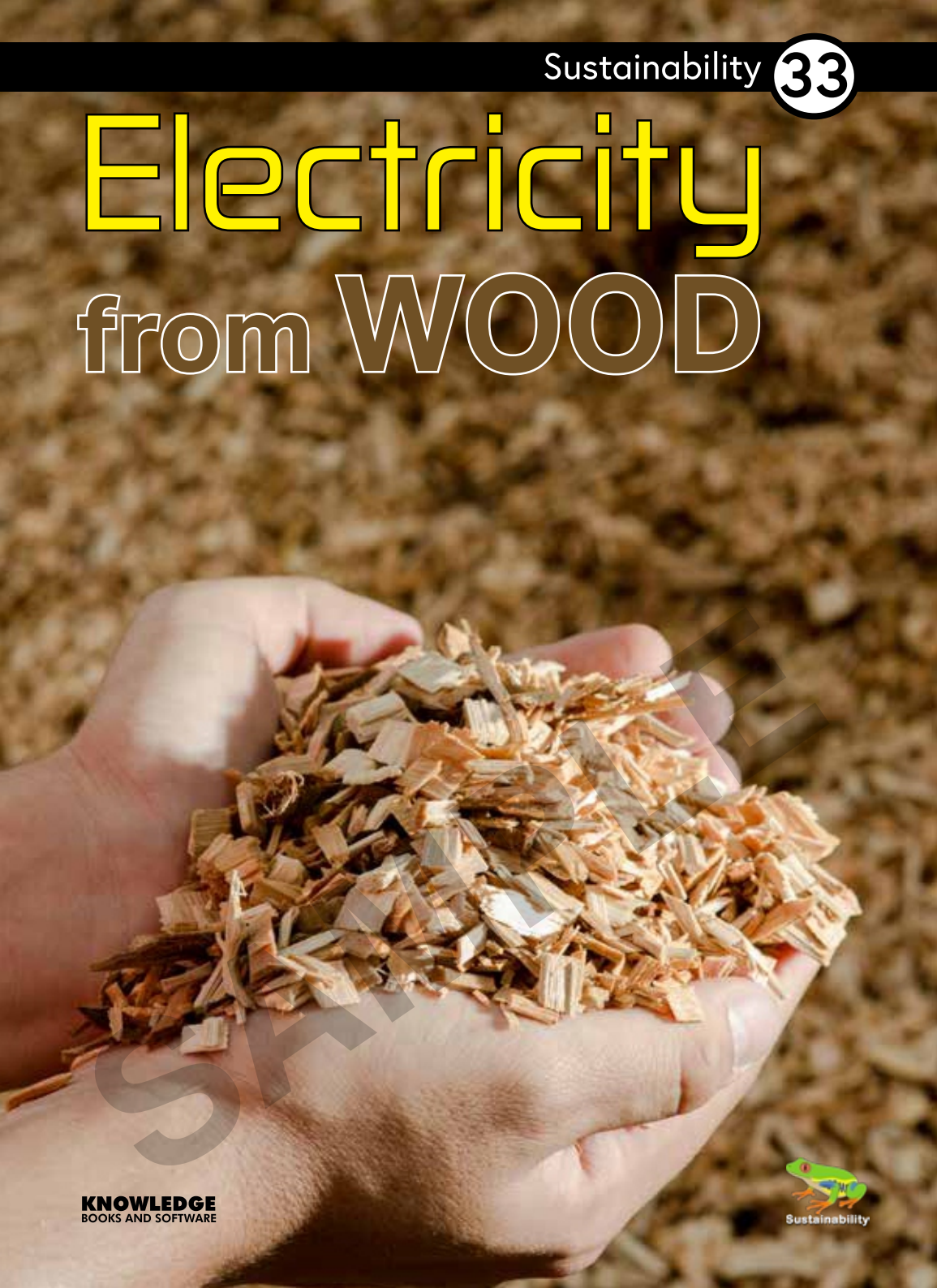
Sustainability 33

Electricity from WOOD



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Sustainability

Suggested Teaching and Learning

Text Type: Non-Fiction **Genre:** Description
Suggested Reading Recovery Level: 5 **Word Count:** 86

ACARA reference
Learning Areas: English; Humanities and Social Sciences
General Capabilities: Literacy; Ethical Understanding
Cross Curriculum Priorities: Sustainability

Teaching and Discussion Points
Before reading - activate prior knowledge and set the purpose for reading.
- Read the title and identify the wood chips on the cover. Tell students that burning wood to boil water is a way we can make electricity.
- Revisit previous texts that discussed alternative energy sources, such as *Electricity from the earth* which also uses steam as part of the process.
- Locate novel vocabulary such as *bubble, steam* and *fire* and novel language structures, such as *round and round*. Have students rehearse these.
- Locate the question *Can you see the steam?* Have students rehearse this.

During reading - support students to read the text independently.
- Prompt for strategic activity as students read and problem solve. Reinforce and support behaviours such as stopping, repeating, re-reading, searching the picture or sounding out.

After reading - comprehension conversation and word work.
- Discuss the way wood chips are used to make electricity. Help students understand that they are burned to heat water to create steam. The steam then turns a wheel which makes electricity.
- Ask students if this process is like any other they have read about.
- Deepen meaning through shared writing. Jointly compose and construct two or three sentences about how we can use wood chips to make electricity.

Vocabulary: bubble, electricity, fire, round, steam, water, wheel, wind, wood

High Frequency Words: and, can, hot, in, is, look, make, see, sun, the, this, too, we, will, you

Word Study
- Locate the words *electricity, bubble* and *water*. Clap each word to hear the syllables. Clap other multisyllabic words students may know.
- Locate the words *can* and *look*. Have students make each word with magnetic letters. Write each word out on card and add them to the class word wall.

Links to National Literacy Progressions - Reading and Viewing

Phonological Awareness	Phonic Knowledge and Word Recognition	Fluency	Understanding Texts
PhA2, PhA5	PKW4, PKW5	FlY2, FlY3	UnT4, UnT5

Carbon in the form of coal and other fossil fuels is burnt to give off the molecule carbon dioxide. Throughout this series we have referred to carbon dioxide as gas due to the complexity of both the science specific language and content.

Using Wood to Make Electricity

We can make electricity.


3

The sun can make electricity.

The wind can make electricity.

The water can make electricity.

Look at this.

This is wood. The wood

can make electricity too.


7

The wood goes in the fire.

The fire will make

the water hot.

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Electricity from WOOD

Electricity from wood is a simple informational text that introduces students to biomass as a potential 'renewable source of energy'. By simplifying the process of burning biomass to heat water which creates steam to power a turbine (wheel) the text attempts to explain how biomass is used to make electricity.

The Authors

Carole and Suzanne are sisters and educators.
Carole has over 30 years teaching experience. The last 15 years have been spent specialising in early literacy acquisition, training teachers and designing and delivering early reading and writing interventions. Carole has a Master of Education and a Master of Teaching English to Speakers of Other Languages.
Suzanne has 15 years teaching experience 13 of which have been spent teaching ESL students. She has a Master of Education (IT in Education) and a Bachelor of Vocational Education and Training.

Electricity is very dangerous

Please read book 26

"TAKE CARE with ELECTRICITY"

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