

THE BOY WHO HARNESSSED THE WIND

ELECTRICITY GENERATION RESEARCH PROJECT

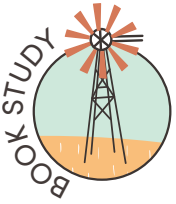
In *The Boy Who Harnessed the Wind*, William Kamkwamba creates a windmill that generates electricity.

Electricity is generated by using either a **renewable** or a **nonrenewable** resource. A renewable resource can be replaced faster than it's used. A nonrenewable resource cannot be replaced as quickly as it's used.

RENEWABLE RESOURCES	NONRENEWABLE RESOURCES
<ul style="list-style-type: none"> • solar • wind • hydroelectric • geothermal 	<ul style="list-style-type: none"> • coal • oil • natural gas • nuclear

PART 1. Using the prompts in the chart below, research one method of electricity generation and record your findings in the left column. Then, find a partner who researched a different method and share your findings with each other. As your partner shares, take notes in the right column.

MY RESEARCH	PARTNER'S RESEARCH
Topic:	Topic:
Type of resource: renewable / nonrenewable	Type of resource: renewable / nonrenewable
Where is this resource found?	Where is this resource found?
What are some traits of this resource?	What are some traits of this resource?
Use words or images to show how this resource generates electricity.	Use words or images to show how this resource generates electricity.



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PART 1. (continued)

MY RESEARCH	PARTNER'S RESEARCH
<p>List two benefits of using this resource to generate electricity.</p> <p>1.</p> <p>2.</p>	<p>List two benefits of using this resource to generate electricity.</p> <p>1.</p> <p>2.</p>
<p>List two challenges with using this resource to generate electricity.</p> <p>1.</p> <p>2.</p>	<p>List two challenges with using this resource to generate electricity.</p> <p>1.</p> <p>2.</p>

PART 2. Compare and contrast the two methods of electricity generation.

BONUS. Think about the methods of electricity generation you and your partner researched. Which one is better for the area where you live? Why? Use evidence from your research notes to support your argument.