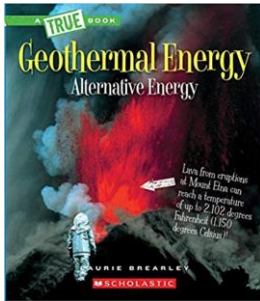


## Books on Alternative Energy for Children and Youth

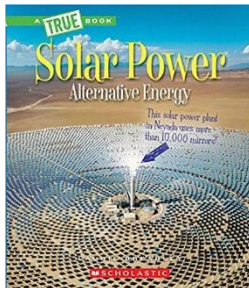
By Anne Skinner, Cowan Museum of History and Science  
Graphics from amazon.com



**Geothermal Energy: The Energy Inside Our Planet** (True Books: Alternative Energy) by Laurie Brearly

Aimed at ages 8-10, grades 3-5. Includes colorful photos and diagrams, comprehension questions, and pros and cons of geothermal energy.

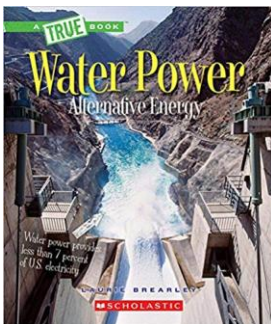
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**Solar Power: Capturing the Sun's Energy** (True Books: Alternative Energy) by Laurie Brearly

Aimed at ages 8-10, grades 3-5. It covers the history, present-day uses, and potential future uses of solar energy.

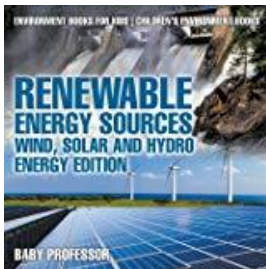
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**Water Power: Energy from Rivers, Waves, and Tides** (True Book: Alternative Energy) by Laurie Brearly

Deals with the history of water power as an energy source, how it is currently being used, and its future potential.

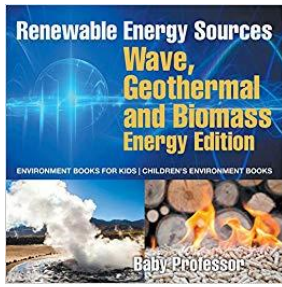
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**Renewable Energy Sources - Wind, Solar and Hydro Energy Edition:**  
Environment Books for Kids by Baby Professor

Begins with a general description of what renewable energy sources are. Follows with specific discussions of wind, solar and hydro energy.

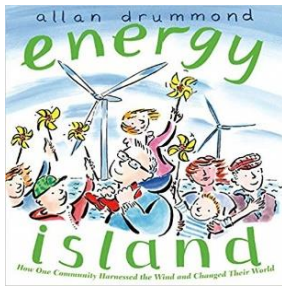
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**Renewable Energy Sources - Wave, Geothermal and Biomass Energy Edition:**  
By Baby Professor

Gives basic definitions of wave, geothermal and biomass energy. Goes into the science and technology that converts them into electricity including the equipment used to generate electricity for homes and industries.

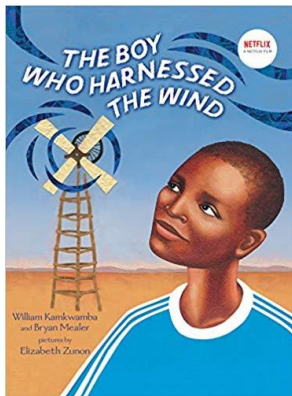
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**Energy Island: How One Community Harnessed the Wind and Changed their World** by Allan Drummond

Aimed at ages 6-10, grades 3-4. The inspiring, true story of how the residents of the Danish island of Samsø found a way to harness the wind and take a huge step toward energy conservation. “At a time when most countries are producing ever-increasing amounts of CO<sub>2</sub>, the rather ordinary citizens of Samsø have accomplished something extraordinary—in just ten years they have reduced their carbon emissions by 140% and become almost completely energy independent.” – Amazon.com

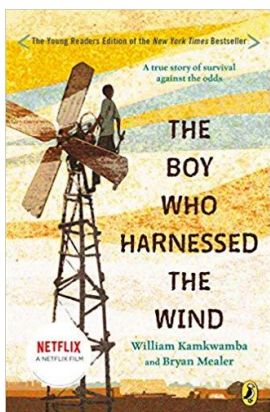
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**The Boy Who Harnessed the Wind: Picture Book Edition** by William Kamkwamba and Bryan Mealer

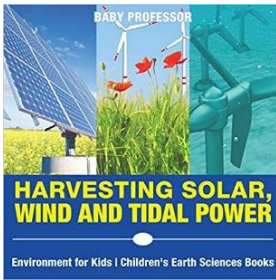
Aimed at ages 6-8, grades 1-3. “When fourteen-year-old William Kamkwamba's Malawi village was hit by a drought, everyone's crops began to fail. Without enough money for food, let alone school, William spent his days in the library . . . and figured out how to bring electricity to his village. Persevering against the odds, William built a functioning windmill out of junkyard scraps, and thus became the local hero who harnessed the wind. Lyrically told and gloriously illustrated, this story will inspire many as it shows how - even in the worst of times - a great idea and a lot of hard work can still rock the world.” – Amazon.com

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**The Boy Who Harnessed the Wind, Young Reader's Edition** by William Kamkwamba and Bryan Mealer

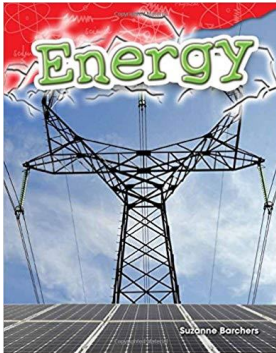
Aimed at teens and young adults. Same story as in the review above, but written for older youth. This story was made into a Netflix film. Amazon's #1 Bestseller in Teen and Young Adult Science and Technology Biographies.



**Harvesting Solar, Wind and Tidal Power** - Environment for Kids | Children's Earth Sciences Books by Baby Professor

Deals with harvesting energy from the sun, wind and tides.

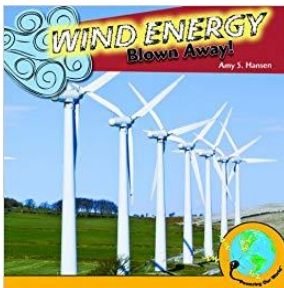
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**Teacher Created Materials - Science Readers: Content and Literacy: Energy - Grade 2 - Guided Reading Level J** by Suzanne Barchers

Aimed at ages 6-9 years, grades 2-4. Introduces the topic of energy with easy-to-read text. Includes a glossary, index, and detailed images. Aligned to state and national standards. Includes a fun and engaging science experiment.

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**Wind Energy: Blown Away! (Powering Our World)** by Amy S. Hansen

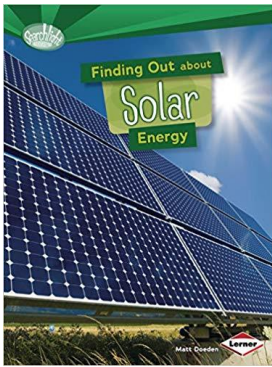
Aimed at ages 7-10, grades 2-4. "Explains how wind energy is generated and used, discusses wind farms and turbines, and considers its use as a renewable resource." Amazon.com

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**Solar Energy: Running on Sunshine (Powering Our World)** by Amy Hansen

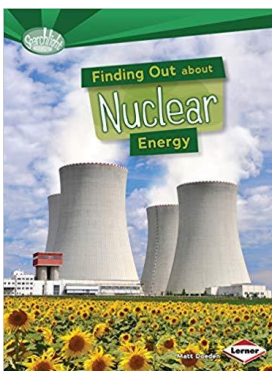
Aimed at ages 7-10, grades 2-5. Addresses passive solar power, photoelectric conversion, and solar energy use in everyday life.



**Finding Out about Solar Energy** (Searchlight Books — What Are Energy Sources?) by Matt Doeden

Aimed at ages 8-11, Grades 3-5. Explains how sunlight is collected and turned into energy we can use. Deals with how solar energy effects the environment.

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**Finding Out about Nuclear Energy** (Searchlight Books — What Are Energy Sources?) by Matt Doeden

Aimed at ages 8-11, Grades 3-5. Tells about how “tiny atoms that make up all matter hold huge amounts of energy”. Discusses uses of nuclear energy, how it is produced and what the drawbacks are.

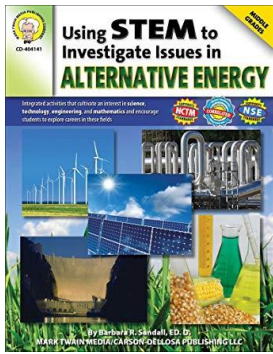
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**Using STEM to Investigate Issues in Managing Waste, Grades 5 - 8** by Barbara R. Sandall and Abha Singh

Aimed at grades 5-12. Includes science inquiry and integrated activities, solving real-world problems, and exploring careers in waste management. Covers topics such as solid waste, product life cycle, composting, packaging, and landfill construction. Supports National Science Education Standards and NCTM and ITEA standards and aligns with state, national, and Canadian provincial standards. [I'm not sure if it addresses waste to energy.]

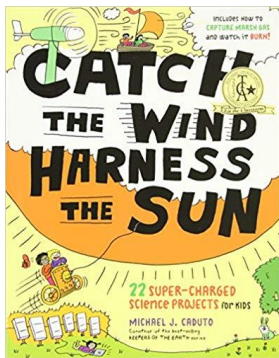
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**Using STEM to Investigate Issues in Alternative Energy, Grades 6 - 8** by Barbara R. Sandall

Aimed at Grades 5-12. Includes science inquiry and integrated activities, solving real-world problems, and exploring careers in alternative energy. Covers topics such as energy issues, oil spill cleanup, air power, solar power, biomass fuels, and hydrogen fuels. Supports National Science Education Standards and NCTM and ITEA standards and aligns with state, national, and Canadian provincial standards.

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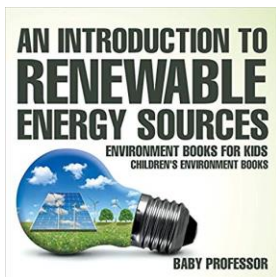


**Catch the Wind, Harness the Sun: 22 Super-Charged Projects for Kids** by Michael Caduto

Aimed at ages 8-12, grades 4-8. Over 20 activities and experiments that involve making and using renewable energy. It got great reviews. "Step-by-step instructions for projects range from using the sun to make fires to charging electronic devices by peddling your bicycle. Additional energy case studies encourage kids to think about the basic tenets of resource management." –

Amazon.com

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**An Introduction to Renewable Energy Sources: Environment Books for Kids** by Baby Professor

Examines questions what renewable sources of energy are. Compares them to nonrenewable sources.