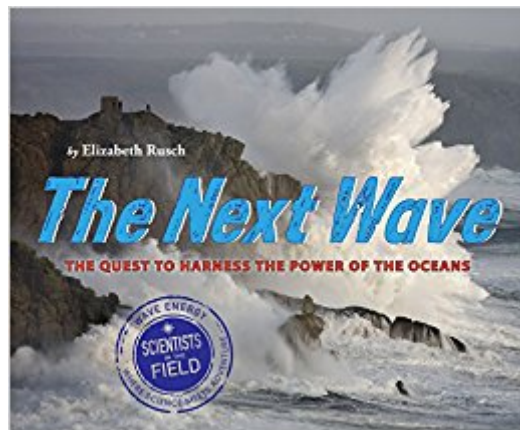




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# The Next Wave: The Quest To Harness The Power Of The Oceans (Scientists In The Field Series)



## Synopsis

Journey to the wave-battered coast of the Pacific Northwest to meet some of the engineers and scientists working to harness the punishing force of our oceans, one of the nature's powerful and renewable energy sources. With an array of amazing devices that cling to the bottom of the sea floor and surf on the crests of waves, these explorers are using a combination of science, imagination, and innovation to try to capture wave energy in the hopes of someday powering our lives in a cleaner, more sustainable way.

## Book Information

Lexile Measure: 1070 (What's this?)

Series: Scientists in the Field Series

Hardcover: 80 pages

Publisher: HMH Books for Young Readers (October 14, 2014)

Language: English

ISBN-10: 0544099990

ISBN-13: 978-0544099999

Product Dimensions: 11 x 0.4 x 9 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #584,010 in Books (See Top 100 in Books) #59 in Books > Children's Books > Education & Reference > Science Studies > Electricity & Electronics #134 in Books > Children's Books > Science, Nature & How It Works > Inventions & Inventors #140 in Books > Children's Books > Sports & Outdoors > Water Sports

Age Range: 10 - 12 years

Grade Level: 5 - 7

## Customer Reviews

Gr 5-8 "Rainforests and savannahs, coral reefs and tundra" readers are most likely familiar with these fields in which scientists work. But this time, it is the energy of the physical movement of the global ocean that is the field, and here in this world of watery physics, a series of imaginative, innovative engineers have been designing, building, and experimenting to successfully harness this inexorable surge of energy. Rusch's readable text follows three very varied groups of visionary engineers on this quest: Mike Morrow and Mike Delos-Reyes (who are working on a device that will allow people to sit upon the ocean floor), Annette von Jouanne and her team (working on a floating

design), and the cofounders of Ocean Power Technologies, the first to win a permit to generate "ocean electricity" to be marketed to homes and businesses on the Oregon coast. Included are sidebars on a rich variety of topics such as "Working with Watts" and a global inventory of "Wild Wave Inventions of the World." Colorful diagrams and a plethora of photos provide visual stimulation as well. This pellucid look into a promising field of alternative energy (so needed in a warming world) and into the scientists devoting their lives to bring concept into reality is informative, intriguing, and inspiring.â "Patricia Manning, formerly at Eastchester Public Library, NY

\* "Lively design, clear explanations, text boxes, photographs and diagrams all contribute to an informative look at how people are working right now to find ways to use a previously inaccessible energy source."â "Kirkus, starred review "Rusch fully explores the engineering process, capturing the determined, entrepreneurial spirit of the profiled engineers as well as the need for creative problem-solving and ingenuity, a test-and-retest mentality, a high tolerance for failure, and perseverance through the quest for research funding."â "Horn Book Magazine \* "This pellucid look into a promising field of alternative energy (so needed in a warming world) and into the scientists devoting their lives to bring concept into reality is informative, intriguing, and inspiring."â "School Library Journal, starred review"Kids who imagine an engineering career in their future will want to explore this timely work."â "Bulletin"Rusch once again looks at the convergence of science and technology. Writing clearly about the engineers&#39; trial-and-error methods, she conveys the importance of testing, the necessity of funding, and the satisfaction of working toward a worthwhile goal." A fine choice for young people intrigued by engineering and oceanography!"â "Booklist OnlineÂ

A very interesting book. Easy to understand for the scientifically/ engineering challenged. It is good to show students how important their school projects and ideas can become. I donated the book to a local school where it was warmly received.

My son read this book at school and can't stop talking about it. Now he is very interested in green energy and creating similar devices as those discussed in the book. He asked me to purchase a copy to have at home and now I'm looking forward to reading it myself. We are also purchasing some other books from the series.

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