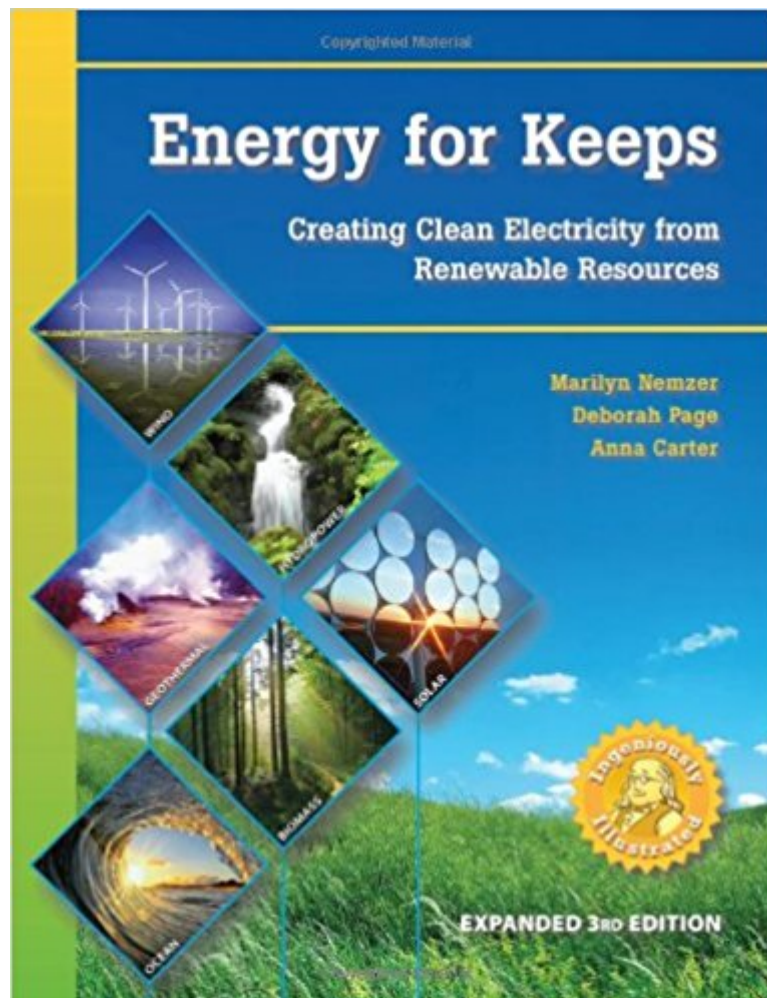




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# Energy For Keeps: Creating Clean Electricity From Renewable Resources



## Synopsis

Energy for Keeps is an illustrated guide for everyone who uses electricity. From students to energy policymakers, it helps readers of all ages understand the energy issues that now loom large in our daily news. With clear language and engaging illustrations, this book covers all renewable energy sources, the science of electricity generation, energy history, environmental considerations, and energy conservation and efficiency.

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A BRIEF HISTORY OF ENERGY How our use of energy has changed over time

ENERGY AND ELECTRICITY How we produce and deliver most of our electricity

ENERGY SOURCES FOR ELECTRICITY GENERATION How we use different energy sources to produce electricity

RENEWABLE ENERGY RESOURCES Biomass Geothermal Hydropower Ocean Solar Wind

THE RENEWABLE AND NONRENEWABLE RESOURCE Hydrogen

NONRENEWABLE ENERGY RESOURCES Fossil Fuels Nuclear

ENERGY, HEALTH, AND THE ENVIRONMENT How energy choices affect our health and the environment

ENERGY MANAGEMENT STRATEGIES AND ENERGY POLICY How energy decisions affect our lives

APPENDIX Energy Timeline Glossary Additional Resources

## Book Information

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## Customer Reviews

Your book is a treasure. Scientifically accurate, clearly written, with inviting diagrams--all of which helps beginning learners, of all ages, build an understanding of electricity. Many will see the light about the value of renewables. --Fran Barhydt, Director of Curriculum & Instruction, Vermont Energy

Education Program At long last, a crucial issue for the survival of our society--electricity from renewable energy--has received comprehensive and clear treatment. --Dr. Kevin Starr, State Librarian of California, Emeritus For anyone looking for a resource book on renewable energy, look no more. Energy for Keeps is cleverly written and illustrated. With Ben Franklin as host, the journey is a historical, as well as scientific exploration of our energy options and their consequences.

--Susan T. Schleith, Education Coordinator, Florida Solar Energy Center

Marilyn Nemzer, M.A., developer and editor of Energy for Keeps, has produced award-winning energy education projects and materials since 1990. She serves on several state and national advisory boards that focus on energy and the environment, is a trustee of the Marin County Board of Education and directs the Geothermal Education Office and the Energy Education Group. She is joined by lead writer Deborah Page, M.A., a teacher with over a decade of experience writing friendly semi-technical documents on renewable energy and energy conservation, and technical editor Anna Carter, a renewable energy consultant for over 20 years who specializes in regulatory compliance, project permitting, and public information.

Energy for Keeps is a simple and yet comprehensive survey of the basic science behind all common forms of energy generation, including natural gas, coal, oil, solar, wind power, bio-mass and co-generation, nuclear power, hydroelectric, and even tidal power. This book takes a careful and nuanced look at the basic science, the applied technology, the benefits and the risks behind all of these power generation methods in a way almost all general readers can easily understand, using clear and concise language. It is written primarily for students, perhaps 7th grade and up, but I think it serves as an excellent general purpose introduction to the very important subject of power generation for most adults. The book also contains many outstanding detailed illustrations which illuminate the basic technology behind these various techniques for generating electrical technology. This adult, who has worked with power utilities and power plants for over 25 years, learned quite a lot from these most effective illustrations. As I write this, it is less than two months after the nuclear accident in Japan, and so the populace is once again reacting against nuclear power creation. I think that if everyone read the clear, nuanced and fair explanation in the chapter on how nuclear power creates electricity, much of the current fear of the technology would be replaced by a clearer understanding of the risks, the benefits and the alternatives. After all, is coal burning, which causes frequent deaths of coal miners and the general health-threats of coal pollution such a great option? Or is power from oil so much better, given the huge loss of sea life

and other wildlife caused by oil spills? What about hydroelectric dams, which kill off native salmon species and destroy natural river flow and beautiful canyons? Or are noisy and aesthetically numbing giant wind farms always so desirable in all locations? And yet our society desires inexpensive and plentiful power on demand. What to do? This book spells out all the options in a very balanced way. Thus I think this jargon-free and easy to read book is exceptionally valuable for educating both students and adults who seek real answers on this vital, but complicated and politically-charged branch of applied science. I highly recommend it.

Energy for Keeps - a Book Review  
Energy for Keeps is designed for students and adults wanting an easy to understand overview of the many resources available for the generation of electric power. It is likely that there will be a move toward electric-powered cars, and how we generate electricity will dominate the energy resource issue. The various means of generating electric power are covered in this book and are presented on equal footing. Renewable and nonrenewable sources are in separate sections. Some examples of successful solutions and associated savings are provided, but this book is light on economic data. The design of Energy for Keeps is excellent with many simplified illustrations that are carefully placed to compliment the text. The use of sidebars cover related issues. Under a topic called "Considerations," the reader is provided a discussion of the advantages and disadvantages of each resource. Because of its clear writing style combined with its organization, readers will find this an excellent book where a great deal of information can be absorbed quickly. Energy for Keeps is a starting point for the journey towards a deeper understanding of the issues involved. Policy makers who want to know the economic impact on the consumer as well as the initial investments, limitations and life expectancies for these resources will need to supplement this book with the latest data. Energy for Keeps by Marilyn Nemzer, Deborah Page and Anna Carter. \$24.95 ISBN 976-0-9744765-5-1  
Kenneth Jessen - author/journalist  
BS in Electrical and Electronic Engineering, Masters in Business Administration

This book was a hit from the day it arrived. For the first week or two, my 6th grader would pick up the book and just read sections of it on his own. When we officially started reading Energy for Keeps much later, it hadn't lost any of its appeal. We enjoyed all of the sections. The information provided about each topic was sufficient without becoming boring. The illustrations are fabulous!! They alone are worth the price of the book as they enable the reader to easily understand the different forms of energy production. In fact, my high school senior picked up the book after hearing that the Japanese nuclear power plants were in danger of melting down. She didn't understand how nuclear

power plants worked and wasn't satisfied with any of the explanations on the web. The section on nuclear power in this book answered all of her questions. I would recommend this book to everyone, not just students; in today's world, we all need to become energy savvy. - Angela W., homeschooling teacher

Energy for Keeps is a great book. I especially liked the solar and wind sections, and also learning how energy is made from big turbines in all the different power plants. The cool drawings helped me understand the technology even more. - Daniel W., 6th grade homeschooling student

The third expanded edition of ENERGY FOR KEEPS: CREATING CLEAN ELECTRICITY FROM RENEWABLE RESOURCES provides the latest details on green energy sources, from ocean energy and solar power to biomass and geothermal. Explanations of how electricity is produced from a range of sources accompanies a survey useful as a classroom tool for students of science and social studies from 6th grade into college. Packed with inviting illustrations and clear explanations, this is a pick for a wide range of collections.

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