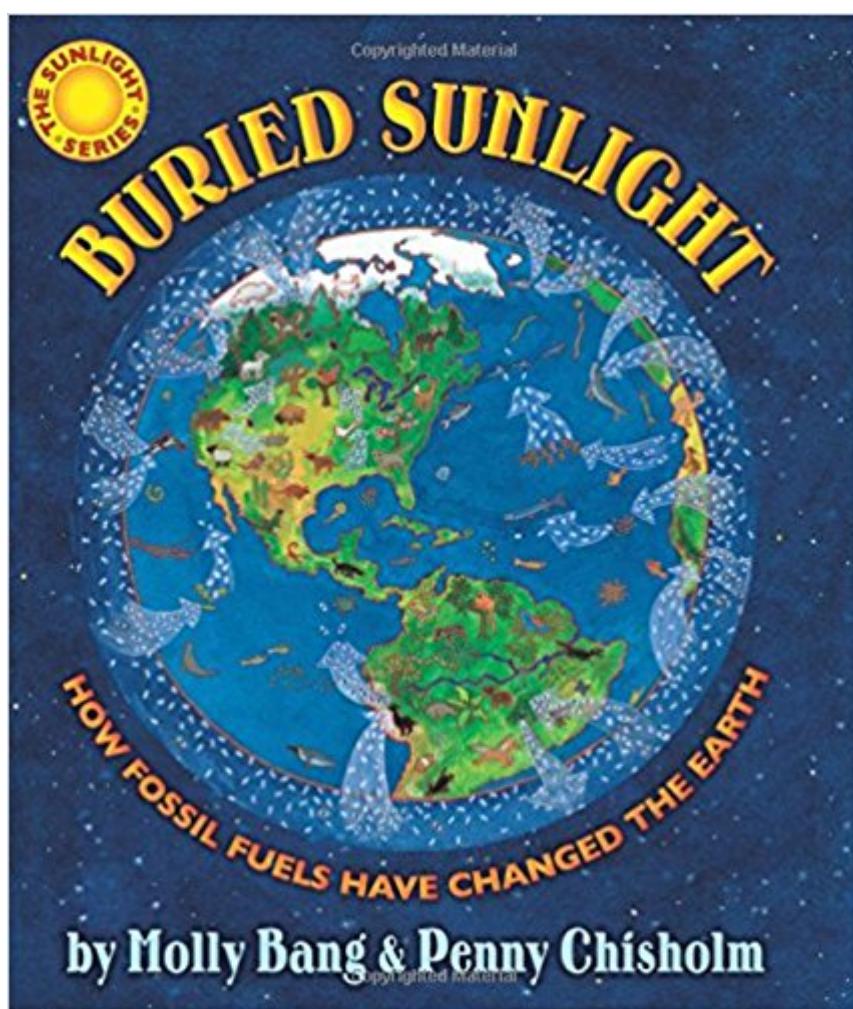


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# Buried Sunlight: How Fossil Fuels Have Changed The Earth



## **Synopsis**

Acclaimed Caldecott Artist Molly Bang teams up with award-winning M.I.T. professor Penny Chisholm to present the fascinating, timely story of fossil fuels. What are fossil fuels, and how did they come to exist? This engaging, stunning book explains how coal, oil, and gas are really "buried sunlight," trapped beneath the surface of our planet for millions and millions of years. Now, in a very short time, we are digging them up and burning them, changing the carbon balance of our planet's air and water. What does this mean, and what should we do about it? Using simple language and breathtaking paintings, Bang and Chisholm present a clear, concise explanation of the fossil-fuel energy cycle that began with the sun and now runs most of our transportation and energy use in our world. Readers will be mesmerized by this engaging fourth book in the award-winning Sunlight Series by Bang and Chisholm.

## **Book Information**

Lexile Measure: NC860L (What's this?)

Series: Sunlight

Hardcover: 48 pages

Publisher: The Blue Sky Press (September 30, 2014)

Language: English

ISBN-10: 0545577853

ISBN-13: 978-0545577854

Product Dimensions: 0.2 x 9.5 x 11.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars 6 customer reviews

Best Sellers Rank: #621,797 in Books (See Top 100 in Books) #104 in Books > Children's Books > Education & Reference > Science Studies > Nature > Rocks & Minerals #424 in Books > Children's Books > Education & Reference > Science Studies > Biology #726 in Books > Children's Books > Education & Reference > Science Studies > Nature > Environment

Age Range: 4 - 8 years

Grade Level: Preschool - 3

## **Customer Reviews**

Praise for OCEAN SUNLIGHT: HOW TINY PLANTS FEED THE SEAS:  
A BOOKLIST Editor's Choice & Top 10 Book for Youth  
A Cooperative Children's Book Center Choice Title  
A Kirkus Best Children's Book Title\* "This ambitious, beautifully illustrated book offers information seldom covered

in science books for young children."--BOOKLIST, starred review\* "Bang creates dimension and visual drama with her use of gold, blues, and black, forming an ethereal habitat for phytoplankton, jellyfish, and bioluminescent creatures."--PUBLISHERS WEEKLY, starred review\* "An awe-inspiring lesson in photosynthesis goes under the sea. . . . Readers will want to visit more than once to capture both the science and the abundant sense of celebration here."--KIRKUS REVIEWS, starred reviewPraise for *LIVING SUNLIGHT: HOW PLANTS BRING THE EARTH TO LIFE*\* "If a good picture book does what it sets out to do, a great one sets out to do something huge and succeeds. . . . An outstanding book to read and absorb."--BOOKLIST, starred review- "Chisholm, a professor of ecology, expands on the theme [photosynthesis], while the intense greens of Bang's gouaches bring it vibrantly to life."--THE NEW YORK TIMES BOOK REVIEW- "LIVING SUNLIGHT is less a tutorial on photosynthesis than a magnificent celebration of life."--NATURAL HISTORYPraise for *MY LIGHT*\* "A lovely and illuminating book that presents sound science while expressing the wonder of flipping a switch and flooding a room with light."--BOOKLIST, starred review- "Bang's imagery and word choice provide a vivid text for her readers. And then there are the illustrations: phenomenal only begins to explain Bang's choices in her use of color and composition. . . . This is a picture book that should be found in all libraries."--CHILDREN'S LITERATURE\*"Combining an amiable voice with unusual breadth of vision, depth of knowledge, and subtlety of presentation, this is a masterful book in a highly original science series"- Booklist, starred review\*"The sun gets stern as it turns to modern-day fossil fuel consumption, explaining human contributions to global warming: âœWill you humans keep burning more and more fossil fuelsâ or will you work together?â • Extensive end notes provide a deeper explanation of the science of climate change"- THE HORN BOOK MAGAZINE, starred review

Molly Bang has written and illustrated more than twenty books for young readers, including *WHEN SOPHIE GETS ANGRY--REALLY, REALLY ANGRY...*; *TEN, NINE, EIGHT*; and *THE GREY LADY AND THE STRAWBERRY SNATCHER*, each of which were Caldecott Honor books. Bang divides her time between Falmouth, Massachusetts, and Northern California. Penny Chisholm has been a professor at M.I.T., where she has been teaching Ecology for more than thirty-five years. Her long list of prestigious awards includes the National Medal of Science, awarded at the White House in 2013.

Delightful and educational series for adults for young citizen scientists. Please check out Penny and Molly's other titles as well!

Awesome! My son, who will turn 5 in two months, now comments as soon as he notices a down or a cut tree or fumes coming out of a car. He understands how we should be careful to help keep the balance.

Spot on!! It will nicely compliment my Ecosystem unit!

I'm a huge fan of this series, and this book in particular. Instead of reviewing the entire book, I'm going to talk about one page, because I think it exemplifies what makes the entire Sunlight series so groundbreaking. There's a two page spread that shows atmospheric CO<sub>2</sub> concentrations over the last 400,000 years. Under the line graph are the little CO<sub>2</sub> molecules that will be so familiar to any reader of the Sunlight books. What's significant though is that under the parts of the graph where CO<sub>2</sub> concentrations were relatively low, there's correspondingly less CO<sub>2</sub> molecules than under the regions of high concentration, and the higher the concentration the more densely the CO<sub>2</sub> molecules are packed. In addition, there's a little landscape scene running along the bottom of the page. The landscape displays known ice ages and inter-glacial periods so you can really clearly see how ice ages correspond to period of low CO<sub>2</sub> concentration. This is amazing in a few ways. The density of the CO<sub>2</sub> molecules, subtly supports the information in the graph, while the illustrations of the climate at the time make it easy to connect ice ages to atmospheric CO<sub>2</sub> levels. This data visualization helps teach non-technical readers - especially children - to interpret data. This kind of attention to detail, depth and clarity and thoughtfulness is on literally every page of this book. It's a frankly astounding work that can be understood on one level by young children while still offering insights to older kids and adults.

I've read or been read Molly Bang's books since before I could walk. Coming to this book as an adult has been incredible. I have given it as gifts to many children, read it to many kids, and have read it myself. I find it a wonderful way for children to begin to learn about the complexities of our world and our human impact upon it. The (as always) gorgeous illustrations just help and make it an even more exciting adventure in reading! Highly recommend to children of any age! And adults...

Very disappointed in this book. I was interested and hopeful that this would be a good truthful book about fossil fuels and where they come from. And as far as that goes it's pretty good. Unfortunately this book takes it farther with what evil we are doing in harvesting said fossil fuels. The author has

totally bought into the "humans are killing the earth" meme and is out and out lying to our kids about Co2 and how the globe is warming. No. Molly Bang is a lovely illustrator and has written and illustrated some of my favorite kids books. Please Ms Bang, stick to picture books.

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