



## **Buried Sunlight: How Fossil Fuels Have Changed the Earth**

**Authors:** Molly Bang and Peggy Chisholm (2014)

**Publisher:** The Blue Sky Press

**ISBN 13:** 9780545577854

### **Synopsis:**

In this picture book intended for grades K-5 you will learn what are fossil fuels, and how they came 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 we are digging them up and burning them, changing the carbon balance of our planet's air and water. The authors ask the readers 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.

### **Science Content/ background information:**

This book discusses science topics: fossil fuels, sunlight, coal, oil, climate change and gas. It explains the cycle of how fossil fuels provide us with energy. The book explains how the sunlight has been trapped deep in the Earth and we now use this energy through oil, gas, and coal to create energy we need. Climate change is introduced about how the Earth is changing and warming due to the use of fossil fuels. Bang and Chisholm challenge readers with questions about what actions should be taken next to save our Earth.

### **Teaching Connections:**

Next Generation Science Standards followed for this book:

#### **4-ESS3-1**

Renewable and Non-renewable Energy Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

#### **4-ESS3.B: Natural Hazards**

A variety of natural hazards result from natural processes. Humans cannot eliminate natural hazards but can take steps to reduce their impacts.

#### **4-ESS3-2: Natural Hazard Design Solution**

Generate and compare multiple solutions to reduce the impacts of natural earth processes on humans.

### **Suggested Uses: [My Book Trailer](#)**

This book could be used to Engage students before beginning the 5E's. This book asks many deep questions for students to ponder and create further research to lead towards an inquiry lesson on creating solutions to decrease the use of fossil fuels.

