

Energy AND THE Environment ONLINE

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Biofuels
Overview • First Fuels • The Nature of Fuel • The Chemistry of Combustion • Ethanol • Biodiesel • Electricity Production • Large-Scale Use of Biomass • Alternative Reasons for the Consumption of Biofuels • Policy, Research, and Biofuels • Conclusion • Afterword: An Interview with Dr. Amani Elobeid on the Economics of Ethanol
SUPPORT MATERIALS Timeline • Glossary • List of Acronyms • Image Gallery • Video Gallery

Coal and Oil
Overview • A Brief History of Coal • Geochemistry and Geology • Meeting the Demand for Coal • The Combustion Reaction • Electricity Production and Its Consequences • Alternative Uses for Coal • Price versus Cost and National Coal Policies • A Brief History of Oil • The Geology and Chemistry of Oil • Meeting the Demand for Oil • Creating and Consuming Petroleum Products • Patterns of Consumption • Environmental Costs of the Oil Economy • Oil Markets and Government Policies
SUPPORT MATERIALS Timeline • Glossary • List of Acronyms • Image Gallery • Video Gallery

Natural Gas and Hydrogen
Overview • Early Gas Technologies and Policies • The Nature of Natural Gas • Transporting and Storing Natural Gas • Electricity Generation • The Restructured Natural Gas Market • Energy Markets and Energy Politics • The Physical and Chemical Properties of Hydrogen • The Hydrogen Economy • Government Policies
SUPPORT MATERIALS Timeline • Glossary • List of Acronyms • Image Gallery • Video Gallery

Nuclear Energy

Support Materials
Video Gallery
Image Gallery

Teacher Resources
Discussion Questions, Activities and Projects, Assessment Questions, Handouts and more
See All Resources

Special Feature
Meeting the Demand for Oil
Nations around the world already require staggering amounts of energy for use in the transport, manufacturing, heating and cooling, and electricity sectors, and as requirements continue to increase as more people adopt more energy-intensive lifestyles. more...

Targeted, Focused ENVIRONMENTAL SCIENCE Content

Printable Materials

High-quality Videos

Energy and the Environment Online provides a comprehensive examination of the history, technology, science, environmental, and social implications that are associated with the production of energy. Containing interviews with prominent people in the field, this online resource features Learning Units that run the gamut of energy sources, from biofuels to nuclear energy to the fossil fuels.

Learning Unit Chapters

Each eLearning Module is divided into Learning Units, displayed in chapters, with high-quality images, sidebars, in-text links, and dynamic citations. Support materials for each chapter are also conveniently located, allowing for seamless in-class integration. Learning Units in *Energy and the Environment Online* include:

- | | |
|--------------------------|-----------------------------|
| Biofuels | Nuclear Energy |
| Coal and Oil | Solar and Geothermal Energy |
| Natural Gas and Hydrogen | Wind and Water. |

Features:

- Correlations to Common Core, state, and national educational standards
- Proprietary content
- High-quality Flash® videos
- Activities and projects
- Assessment questions with answer keys
- Discussion questions
- Learning objectives
- Printable materials
- Support materials
- Media galleries
- Read Aloud audio tool
- Google Translate on every page, with 53 languages to choose from
- Dynamic full citations
- Search results with hit highlighting and Search Assist technology
- Print and email capabilities and text-size tool
- Persistent record links
- Usage statistics.

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eLearning Modules

eLearning Modules titles include:

CAREERS AND GUIDANCE

Exploring Career Clusters Online
Top Careers with a Two-Year Degree Online

SCIENCE

Biomes of the Earth Online
Energy and the Environment Online
Essential Chemistry Online
Genes and Disease Online
Genetics and Evolution Online
Global Warming Online
Green Technology Online
The Human Body: How It Works Online
Physics in Action Online
The Plant World Online

U.S. HISTORY

America at War Online
Life in America Online
Your Government: How It Works Online

WORLD HISTORY

Global Exploration Online
Great Empires of the Past Online

COMING SOON!

Character Education Online
Healthy Eating Online
Understanding Drugs Online

Enriched Online Resources Engage Students on Core-curriculum Topics

Reference Solutions Made Easy

Our new eLearning Modules provide focused, targeted coverage of core-curriculum topics. Designed for libraries and classrooms, eLearning Modules are a unique combination of our multivolume print series with rich media, including high-quality educational videos, images, instructor resources, and support materials that were created specifically to align with the content for a seamless learning experience.

Bring Learning to Life

Students will find these online resources engaging and simple to use. Instructors, curriculum coordinators, and principals will appreciate the easy integration into classroom learning and the wide assortment of invaluable support materials and instructor resources, including activities, discussion and assessment questions, and printable materials. Librarians will be able to offer their students and patrons quick access to homework and research help.

Engaging Online Resources for Today's Students

eLearning Modules are also excellent for distance learning, study abroad, and tutoring programs. These dynamic and compelling online resources pick up where textbooks leave off, bringing the subject matter to life. eLearning Modules are the perfect solution to every educator's goal: helping students achieve their best.

ALSO OF INTEREST:

Streaming Video

Comprehensive, multi-subject streaming video subscription services providing unlimited access to 13,000 full-length videos and 207,000 video clips.

Online Databases

Award-winning, exclusive reference content in a variety of subject areas, perfect for any institution.

eBooks & Print

Core-curriculum and high-interest K-12 and reference eBook and print offerings that will become a lasting part of your library's holdings.

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