Energy Education Resources

August, 2013

(http://eere.energy.gov/education/energy_literacy.html)


American’s Home Energy Education Challenge (www.homeenergychallenge.org) from the Department of Energy and the National Science Teachers Association. The challenge runs during the 2013-2014 school year and registration closes November 15, 2013. Teams of students will win over $60,000 competing in the Home Energy Challenge and EneCLEAN Community and Collection!

There is climate and energy education discussion and activity with other scientists, educators, policy makers, community leaders, students and engaged citizens at http://cleanet.org/clean/community/index.html and also Collection of educational resources

There is (http://cleanet.org/clean/educational_resources/index.html) which includes nearly 600 educational resources for grades 6-16 which are all scientifically sound and pedagogically effective thanks to a review process, as well as distance learning adventure for K-12 students running during the 2013-2014 school year.

ClimateChangeLIVE will provides an amazing collection of science-based, climate education resources and programs and will include live electronic field trips during the school year as a way to learn about climate change science directly from climate experts and educators. Interact with them during webcasts and on social media. Register today! http://www.climatechangelive.org/
Live STEM Careers Event from National Geographic on JASON Learning on October 3, 2013. A day of live, interactive programs focused on careers in renewable energy. JASON will connect audiences with STEM role models who are currently working in the wind energy industry. [http://www.jason.org/live/renewable-energy-careers](http://www.jason.org/live/renewable-energy-careers). This event will also be archived for use after October 3rd.

This is a National Geographic online game that allows players to design and create their own energy-efficient city of the future; plus, there will be a short 3D film, teacher workshops, interactive educational materials and exhibits, and programs at local science centers. [http://education.nationalgeographic.com/education/collections/connect-energy/?ar_a=1](http://education.nationalgeographic.com/education/collections/connect-energy/?ar_a=1)

The U.S. Energy Information Administration has an Energy Kids site [http://www.eia.gov/kids/](http://www.eia.gov/kids/) where you can find a wide range of activities for students and information about how teachers can put this site to use. This is aimed at K-12 audiences but useful for a much wider range.


BITES (Building, Industry, Transportation, and Electricity Scenarios) tool is an interactive framework that lets users explore the energy and carbon implications of altering the current U.S. energy profile. Using 'what-if' scenarios, users are able to adjust inputs to the electricity generation, buildings, industry, and transportation sectors in order to compare outcomes to baseline reference cases. [https://bites.nrel.gov/](https://bites.nrel.gov/)
The NEED (National Energy Education Development) Project (www.need.org) has a large library of energy curriculum on a wide range of energy topics and is differentiated between primary, elementary, intermediate and secondary levels. Specific curriculum you will find useful can be found at the following site which sorts the curriculum according to subject. http://www.need.org/Curriculum-Guides-by-Subject.

The Switch Energy Project is a film, web and education program to build energy awareness and efficiency, and help us move forward to a smarter energy future. They have a lot of short video clips on a wide range of energy topics that teachers may find useful and students may find interesting. http://www.switchenergyproject.com/index.php

Watt’s Up? The Lowdown on Energy, from the American Geosciences Institute, is a portfolio of instructional modules on energy. Each module is approximately 30 pages and consists of classroom activities, teacher notes, background information, assessments, career information and a glossary. http://www.agiweb.org/education/energy/index.html

Focus the Nation’s The WATT? An Energy 101 Primer (http://www.focusthenation.org/the_watt) provides a comprehensive overview of energy in the U.S.