

EarthComm Earth's Natural Resources: Energy Resources and Your Community Activity 1

This investigation will help you to:

- Heat Transfer
- Energy, Work, and Power
- To learn more about improving electricity generation efficiencies, visit the following web sites:

Heat Transfer

- "The Educator's Guide to Convection" - Jet Propulsion Laboratory "Introduction to Heat Transfer"
University of Minnesota Dept of Mechanical Engineering Site defines heat, explains what heat transfer is and why it is important.

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Energy, Work, and Power

- "Work, energy, and power" - HyperPhysics
Site defines each term. Click on concept box to view a concept map that visually explains each term. Site also includes every day examples of these concepts in action and allows you to input numbers and complete various calculations.
- "How force, power, torque, and energy work" - HowStuffWorks
Through a series of links, this site defines common physics terms and explains how these different concepts work together. Includes a list of web links for further information.
- Energy, work, and power - About.com
Click on buttons to receive definitions, mathematical derivations, and examples to help in understanding work, kinetic energy, potential energy, power, and more.

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To learn more about improving electricity generation efficiencies, visit the following web sites:

- "Energy Efficiency and Renewable Energy Network (EREN)" - Dept of Energy Site reviews technologies to improve energy efficiencies in a variety of sectors:
 - Buildings
 - Transportation
 - Industry
 - Geothermal Power
 - Hydrogen Fuel Cells
 - Solar Energy
 - Wind and

- Hydropower

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