

Energy Conversions Gizmo

NRG 6.1

Directions

Follow the instructions to go through the simulation. Respond to the questions and prompts in the boxes.

Vocabulary

chemical energy, electrical current, energy, fossil fuel, global warming, gravitational potential energy, hydroelectricity, kinetic energy, light, nonrenewable resource, nuclear energy, renewable resource, sound, thermal energy

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Question/Prompt	Your Response
1. What are sources of electricity? List as many as you can.	~sunlight ~wind ~hydropower
2. Where do people and other animals get energy to move around?	~food and drinks
3. Where do plants get energy to live and grow?	~sunlight ~water ~soil

Gizmo Warm-up

In the Energy Conversions Gizmo, be sure **Information** mode is selected. Click on each of the different items in the scene and read about each one.

Question/Prompt	Your Response
4. Which object converts sunlight into sugars?	corn
5. Which object converts wind power to electricity?	wind turbine
6. Which object converts light to electricity?	solar panels
7. Which object converts electricity to light?	light bulb



Activity A: Energy Paths

Where do we get energy to run, climb, play, and do all the other things we do? Get the Gizmo ready:

- Select the Path mode.



Answers For Gizmo Energy Conversions

R Bogdan

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answers For Gizmo Energy Conversions:

Reserves H. G. Hedger, 2025-08-13 Grace Holden has it all a handsome husband a satisfying career three daughters and a house in the suburbs However when she flies home to care for her dying father everything changes A deathbed promise and a phone call turn her world upside down Can she fulfill her father's final wishes while ensuring the safety of those she loves Embark on Grace's tumultuous journey as she unravels the cryptic clues her father left behind all while keeping one step ahead of a powerful corporation determined to undermine and threaten her at every turn **Alternative Long-range Energy Strategies** United States. Congress. Senate. Select Committee on Small Business, 1977 **Solar Energy Project** United States. Department of Energy. Office of Conservation and Solar Applications, 1979 Hydrogen & Fuel Cell Letter, 1998 New Scientist, 2007 **New Scientist and Science Journal**, 2006 *The H Factor* L. E. Indianer, 2011 **Water & Sewage Works**, 1973-02 Electronics Now, 1998 **The Atlantic Monthly** James Russell Lowell, James Thomas Fields, William Dean Howells, Thomas Bailey Aldrich, Horace Elisha Scudder, Walter Hines Page, Bliss Perry, Ellery Sedgwick, 1977 **Municipal and County Engineering**, 1973 *The Next Whole Earth Catalog* Stewart Brand, 1980 **Chicago Tribune Index**, 1996 Energy Conversion Systems Harry A. Sorensen, 1983-07-01 **Non-mechanical Energy Conversion** Frank George Spreadbury, 1971 **Principles of Energy Conversion** Archie W. Culp, 1979 The second edition of the text Direct Energy Conversion Stanley W. Angrist, 1976 This package contains the following components 0205668976 MyWritingLab 12 month access 0205751555 LB Brief with Tabs **ENERGY CONVERSION SYSTEMS** NARAYAN CHANGDER, 2024-05-15 If you need a free PDF practice set of this book for your studies feel free to reach out to me at cbsenet4u gmail com and I'll send you a copy THE ENERGY CONVERSION SYSTEMS MCQ MULTIPLE CHOICE QUESTIONS SERVES AS A VALUABLE RESOURCE FOR INDIVIDUALS AIMING TO DEEPEN THEIR UNDERSTANDING OF VARIOUS COMPETITIVE EXAMS CLASS TESTS QUIZ COMPETITIONS AND SIMILAR ASSESSMENTS WITH ITS EXTENSIVE COLLECTION OF MCQS THIS BOOK EMPOWERS YOU TO ASSESS YOUR GRASP OF THE SUBJECT MATTER AND YOUR PROFICIENCY LEVEL BY ENGAGING WITH THESE MULTIPLE CHOICE QUESTIONS YOU CAN IMPROVE YOUR KNOWLEDGE OF THE SUBJECT IDENTIFY AREAS FOR IMPROVEMENT AND LAY A SOLID FOUNDATION DIVE INTO THE ENERGY CONVERSION SYSTEMS MCQ TO EXPAND YOUR ENERGY CONVERSION SYSTEMS KNOWLEDGE AND EXCEL IN QUIZ COMPETITIONS ACADEMIC STUDIES OR PROFESSIONAL ENDEAVORS THE ANSWERS TO THE QUESTIONS ARE PROVIDED AT THE END OF EACH PAGE MAKING IT EASY FOR PARTICIPANTS TO VERIFY THEIR ANSWERS AND PREPARE EFFECTIVELY **Solutions Manual to Accompany Direct Energy Conversion, Fourth Ed** Stanley W. Angrist, 1982 **Elements of Energy Conversion** Charles R. Russell, 2013-10-22 Elements of Energy Conversion brings together scattered information on the subject of energy conversion and presents it in terms of the fundamental thermodynamics that apply to energy conversion by any process Emphasis is

given to the development of the theory of heat engines because these are and will remain most important power sources Descriptive material is then presented to provide elementary information on all important energy conversion devices The book contains 10 chapters and opens with a discussion of forms of energy energy sources and storage and energy conversion This is followed by separate chapters on thermal properties and relations heat engines chemical energy electrochemical processes and solar energy Subsequent chapters deal with thermoelectricity thermionic generators radioisotope power sources and energy storage

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