

# Renewable Energy Education for Kids- We Energies Resource

Source: <http://www.we-energies.com/educators/index.htm>. Click on Classroom Resources and scroll down to:

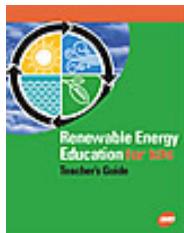
## K-8 Teacher's Guides

### Renewable Energy Education for Kids

Grades 3-8

Unit: Science, Math

Material: Teacher's Guide with student activities and experiments



Need more background information on renewable energy? What is it? How does it make electricity? The Renewable Energy Education Teacher's Guide is designed to build renewable energy awareness and describe how electricity is produced in Wisconsin from renewable energy sources. The renewable energy lessons are based on academic standards and include differentiated activities for your classroom to explore solar, wind, water and biomass energy sources. Lessons are matched with experiments and step-by-step how-to instructions. The guide concludes with a vocabulary list and student certificate.

Name \_\_\_\_\_

### Matching:

- \_\_\_ 1. Energy from natural resources such as wind and solar that replenish themselves naturally.
- \_\_\_ 2. Captured by large, freestanding wind turbines that can be up to 400 feet high.
- \_\_\_ 3. Fossil fuels such as coal, natural gas and nuclear have finite supplies and are classified this way.
- \_\_\_ 4. Comes from plants such as trees, food waste, agricultural waste, wood or paper. Can be burned directly as a fuel source, decompose to produce electricity, or put into a digester to produce energy.
- \_\_\_ 5. Uses the sun's light to produce electricity and works best in the Sun Belt.
- \_\_\_ 6. Utilizes the power of falling water to produce electricity and is one of the least expensive power sources.

Put the letter of the correct answer in the lines above:

- A. Biomass Energy
- B. Hydro Energy
- C. Nonrenewable Energy
- D. Renewable Energy
- E. Solar Energy
- F. Wind Energy

## Machines and Equipment related to energy production

- A. Select one of the forms of energy \_\_\_\_\_
- B. List the different machines or pieces of equipment needed to generate that type of electricity.
- C. How does it work? How is energy produced?
- D. List 3 facts you learned about that type of energy
- 1.
  - 2.
  - 3.

## Renewable Energy Education for Kids

RE	ALL	BLE	D S	SEL	GY	ERG	REN
RCE	VES	NIS	S,	HEM	SUC	M N	RAL
AN	ATU	NA	FRO	S E	PLE	H A	EN
SOU	OLA	Y I	RE	R T	S W	TUR	Y.
NER	HAT	EW A	H T	IND			


Unscramble the tiles to reveal a message. Hint- definition of renewable energy from page 2 of the Lesson No. 1 (Renewable Energy Education for Kids- We Energies)