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***The Shocking Truth about Energy*** by Loreen Leedy

Reading Discussion Questions

1. These are the steps to change a fossil fuel into electricity:

* Burn fuel to create heat
* Hot water becomes **steam**
* Steam makes a turbine **spin**
* The turbine spins a magnet in a **generator**
* **Electricity** moves through wires to your house.

1. Name two ways you used electricity today. Answers will vary. Examples:

**Turn on lights, charge phone/iPad/computer, cook food, wash clothes, play video games, get a cold drink out of the refrigerator,**

1. Tell how you transfer energy when you play at recess.

**Light energy from the sun make plants grow.**

**People and animals eat food. Food inside our bodies makes muscle power.**

**Muscles make motion which help you walk, run, jump, dance, sing, climb and more.**

1. You cannot create or destroy energy, but you can change it from one form to another. Explain how this idea works when cooking a hotdog.

**Light energy from the Sun helps a tree grow (photosynthesis).**

**The tree is fuel (biomass) to make a fire.**

**The heat from burning wood cooks the hotdog.**

1. Where have you seen a wind turbine?

**Answers will vary depending on your area of the state and experiences of your students.**

1. How might these problems affect you and your community? Various answers include:

**Loss of land along a coast (including Lake Erie and the Great Lakes), less beaches, stronger storms and more flooding, heat waves, food could be more expensive, loss of forest habitat and animals, drought**

1. What are two energy savings tips for grownups? Answers will vary. Examples:

**Buy energy saving appliances, use washable towels, combine errands, turn down thermostat, use rechargeable batteries, use energy efficient light bulbs**

1. What are two energy savings tips for kids like you? Answers will vary. Examples:

**Close the refrigerator door, use reusable bags and water bottles, turn off lights, plant a tree, recycle, eat less meat, donate old toys, ride your bike, play outside**

1. Explain why the picture on page 18 is an idiom.

**Erg (the Lightning Bolt) states, “Wind power has many fans.” A fan has two meanings here: 1. An enthusiastic supporter 2. The blades of a wind turbine work like a fan.**

1. Describe three problems of a warmer Earth: Any answer from page 13 is acceptable.

**Disappearing glaciers, melting ice at the poles, flooded islands and coastlines, stronger storms and more heat waves, crop failures, habitat loss, longer dry season & more wildfires, low water flows, more deserts**