

Explore the many fuel sources that Georgia Power uses to provide customers with affordable and reliable energy.

WATT'S WISE? GENERATION?



Complete the **word scramble** to learn how Georgia Power generates **ELECTRICITY!**

Gas and coal both make electricity through **BONCOIMSTU** _____.

ACLO _____ is pulverized into a fine powder or gasified state.

MESAT _____ carries a tremendous force used to turn **BERUTIN** _____ blades that spin electric generators.

Gas is typically used in gas turbine or **NIEDOCBM** _____ cycle plants.

ORYDH _____ plants use water and **VIRATGY** _____ to move turbine blades.

Heat at **ENRULAC** _____ plants comes from the nuclear fission process.

SNOBIAS _____ utilizes waste materials like wood pulp as a fuel.

Sunlight is converted into electricity through **AROLS** _____ cells that absorb the sun's energy.

Nuclear power plants do not produce greenhouse gas emissions.

SIMPLE GENERATOR:



ELECTROMAGNETIC INDUCTION
georgiapower.com/learningpower

Electricity is measured in units of electrical energy called **kilowatt-hours (kWh)**.

HOW IS ELECTRICITY MADE?

Follow the video to find the answers to the following questions!

An example of natural electricity is

- Lightning
- Thunder

An example of man-made electricity is

- Ocean waves
- Light fixtures

What is electricity?

- Moving protons
- Movement of tiny atomic particles called electrons

What are the two main components of the simplest type of generator?

- Rotating magnet (rotor) and stationary coils of copper wire (stator)
- Lamp and electrical outlet

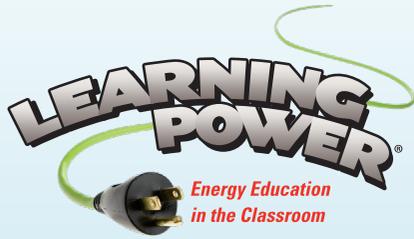
What happens when the rotor rotates through the magnetic field?

- It causes electrons to jump
- It makes electrons disappear

Georgia Power owns and operates a network of 18 generating facilities and 20 hydroelectric dams, serving 2.4 million customers.

Watt's Wise?

Based on what you have learned about generation and fuel sources, why is being **ENERGY EFFICIENT** important?



georgiapower.com/learningpower

Transformation of Energy:



NON-RENEWABLE OR RENEWABLE
 POTENTIAL OR KINETIC



Energy Sources

NON-RENEWABLE OR RENEWABLE
 POTENTIAL OR KINETIC



NON-RENEWABLE OR RENEWABLE
 POTENTIAL OR KINETIC



NON-RENEWABLE OR RENEWABLE
 POTENTIAL OR KINETIC



Transformation of Energy:



NON-RENEWABLE OR RENEWABLE
 POTENTIAL OR KINETIC



NON-RENEWABLE OR RENEWABLE
 POTENTIAL OR KINETIC



NON-RENEWABLE OR RENEWABLE
 POTENTIAL OR KINETIC



NON-RENEWABLE OR RENEWABLE
 POTENTIAL OR KINETIC

Transformation of Energy:

