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.

SMOBIAS ____________ 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.

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

Electricity is measured in units of electrical energy called watt.

Watt’s Wise?
Based on what you have learned about generation and fuel sources, why is being ENERGY EFFICIENT important?

Study the pie graphs pictured on the right.
Directions:
1. Red box – What is the pictured energy source?
2. Is the energy source potential (P) or kinetic (K)?
3. Describe the transformation of energy from the energy source to a useable form of energy, such as electricity.
4. Is the energy source renewable (R) or non-renewable (NR)?