



# WHAT IS ENERGY?

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- **Energy** can be defined as the ability to do work.
- Energy can take many forms, including:
  - Heat energy
  - Electrical energy
  - Mechanical energy
  - Nuclear energy



# WHAT IS ENERGY?

- Energy is also used by human body systems.
  - Breathing, digesting, moving, thinking, etc.

Where do humans get their energy from?



# WHAT IS ENERGY?

- The Sun is the most important energy source.
  - Allows plants and animals to live
- The Sun produces:
  - Radiant (light) energy
  - Heat energy





Electrical energy  
is very important.

Where does the  
electricity in your  
community  
come from?



# USES FOR ENERGY



- Homes, businesses, and industries rely on energy to operate.
- **Examples:**
  - Cars, airplanes, and boats rely on gasoline and diesel to run.
  - Home appliances and electronics use natural gas and electricity.

What are other examples of energy use?

# USES FOR ENERGY

- According to Statistics Canada:

## Energy Consumption by Sector (2019)

**Commercial**

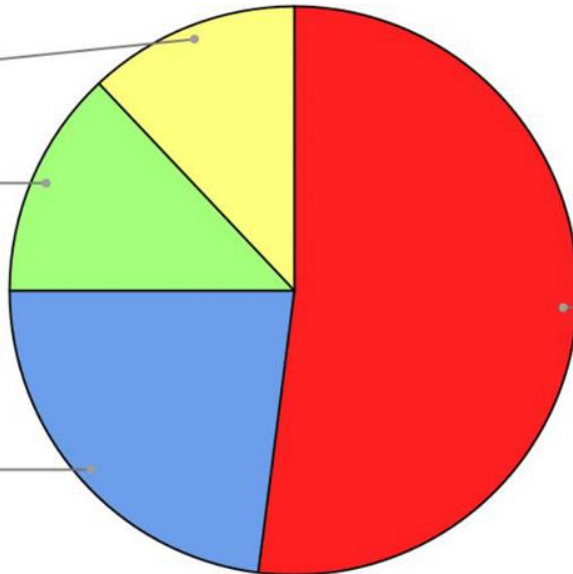
12.0%

**Residential**

13.0%

**Transportation**

23.0%



**Industrial**

52.0%

How does each sector use energy?

Does this data surprise you?



Why are people concerned about the worldwide production and consumption of energy?





Think about it!

Describe the energy-consuming activities that could be involved in each sector.



**Commercial**



**Residential**



**Transportation**



**Industrial**