

Match each renewable energy type to how it works, one advantage, and one challenge.

Energy Types

1. Solar Energy
2. Wind Energy
3. Hydropower (Water Energy)
4. Geothermal Energy

How It Works

- A. Uses moving air to spin turbines that generate electricity.
- B. Uses heat from beneath the Earth's surface to produce energy.
- C. Uses sunlight captured by panels to create electricity.
- D. Uses flowing or falling water to turn turbines and generate power.

Advantages

1. Produces clean energy with no air pollution.
2. Reliable and constant source of energy in certain areas.
3. Can be used in many locations with rivers or dams.
4. Reduces dependence on fossil fuels.

Challenges

- a. Only works when the sun is shining.
- b. Can harm fish and aquatic habitats.
- c. Works best in windy areas; not reliable everywhere.
- d. Expensive to install and limited to certain regions.

Match-Up Table

Energy Type	How It Works (A-D)	Advantage (1-4)	Challenge (a-d)
Solar Energy			
Wind Energy			
Hydropower			
Geothermal Energy			