

1. What are the primary types of renewable energy sources discussed in the video?

- A) Fossil fuels, nuclear, and coal
- B) Solar, wind, hydro, geothermal, and biomass
- C) Natural gas, petroleum, and hydroelectric
- D) Coal, wind, and biomass

2 How does solar energy work?

- A) By burning fossil fuels to generate heat
- B) By using mirrors to reflect sunlight into the atmosphere
- C) By converting sunlight into electricity using photovoltaic cells
- D) By capturing heat from the ocean's surface

3. What is wind energy?

- A) A form of energy that captures heat from the sun
- B) Energy generated by the movement of air, which turns wind turbines
- C) Power produced by ocean waves
- D) A type of energy stored in coal

4. How is hydroelectric power generated?

- A) By using turbines powered by falling or flowing water
- B) By heating water to produce steam that turns a generator
- C) By storing excess energy in water tanks for later use
- D) By extracting electricity from water molecules

5. What is the role of geothermal energy?

- A) It captures and stores solar radiation for use at night
- B) It uses heat from the Earth's interior to generate electricity
- C) It harnesses the movement of ocean tides
- D) It burns organic materials to produce energy

6. Which of the following is a disadvantage of biomass energy?

- A) It emits carbon dioxide when burned
- B) It is not a renewable energy source
- C) It cannot be used for electricity generation
- D) It produces more energy than fossil fuels

7. What is a major challenge in transitioning to renewable energy?

- A) Renewable energy sources are unlimited and always available
- B) The infrastructure for fossil fuels is already well-established
- C) Renewable energy is more expensive than fossil fuels in all cases
- D) People do not use electricity anymore

8. How do renewable energy sources help reduce greenhouse gas emissions?

- A) They produce less or no carbon dioxide compared to fossil fuels
- B) They increase atmospheric pollution
- C) They require burning coal to function
- D) They generate more greenhouse gases than non-renewable sources

9. What technological advancements are helping the growth of renewable energy?

- A) Improvements in energy storage and grid integration
- B) Increasing reliance on coal power plants
- C) Reducing the use of electricity worldwide
- D) Slowing down the development of solar panels

10. How can individuals support renewable energy adoption?

- A) By investing in solar panels for their homes
- B) By reducing energy consumption and supporting clean energy policies
- C) By advocating for the use of fossil fuels
- D) Both A and B