

Renewable Energy from Space

Renewable Energy · Answer Key · 10 Questions

1. Which primary celestial body serves as the ultimate source of all renewable energy on Earth?

- A) The Moon
- B) The Sun**
- C) Jupiter
- D) Mars

2. What type of renewable energy is captured by using solar panels to collect light from our star?

- A) Wind power
- B) Solar energy**
- C) Geothermal energy
- D) Tidal energy

3. How do satellites orbiting the Earth generate the electricity they need to function?

- A) Solar arrays**
- B) Large batteries
- C) Wind turbines
- D) Burning coal

4. The heat generated by the Earth's core, which provides geothermal energy, was primarily formed during what event?

- A) The Earth's formation**
- B) A solar storm
- C) The lunar eclipse
- D) The Big Bang

5. Wind is created on Earth by the uneven heating of the atmosphere by which celestial body?

- A) The Sun**
- B) The Moon
- C) Venus
- D) Saturn

6. Which form of renewable energy is generated by the gravitational pull of the Moon on Earth's oceans?

A) Solar power

B) Tidal energy

C) Hydroelectric power

D) Biomass

7. What is the name of the process that powers the Sun, which scientists hope to replicate on Earth for clean energy?

A) Nuclear fission

B) Nuclear fusion

C) Chemical combustion

D) Photosynthesis

8. Approximately how many minutes does it take for light from the Sun to reach the Earth to provide solar energy?

A) 8 minutes

B) 1 hour

C) 24 hours

D) 10 seconds

9. Which celestial phenomenon causes the tides, allowing humans to harness tidal energy?

A) The rotation of Mars

B) The Moon's gravity

C) Solar flares

D) Meteor showers

10. Plants on Earth convert solar energy into chemical energy through a process that relies on light from which star?

A) The Sun

B) Polaris

C) Sirius

D) Betelgeuse