

Global Renewable Energy Landscape

Renewable Energy · Answer Key · 10 Questions

1. Which country is the world's largest producer of hydroelectric power?

- A) United States
- B) Russia
- C) China**
- D) Brazil

2. The Atacama Desert in Chile is renowned for its exceptional solar irradiance. What makes it particularly suitable for solar energy generation?

- A) High average wind speeds
- B) Frequent cloud cover
- C) Minimal rainfall and clear skies**
- D) Abundant geothermal activity

3. Which European country leads in offshore wind power capacity, harnessing the strong winds of the North Sea?

- A) Germany
- B) Denmark
- C) United Kingdom**
- D) Netherlands

4. Indonesia, an archipelago with significant volcanic activity, is a global leader in which type of renewable energy?

- A) Tidal energy
- B) Solar energy
- C) Geothermal energy**
- D) Biomass energy

5. Which South American nation, known for its extensive coastline and tidal ranges, is developing significant tidal energy projects?

- A) Argentina
- B) Chile
- C) Peru
- D) Canada**

6. The Gobi Desert, spanning parts of Mongolia and China, is a prime location for wind energy development due to its consistent and strong winds. What is a primary challenge in harnessing this resource effectively?

- A) Proximity to major population centers
- B) Limited land availability
- C) Remote location and infrastructure limitations**
- D) High water scarcity for turbine cooling

7. Which African nation is investing heavily in solar power projects, particularly in the Sahara Desert region?

- A) Nigeria
- B) Morocco**
- C) Egypt
- D) South Africa

8. The island nation of Iceland heavily relies on renewable energy. What is its primary source of electricity and heating?

- A) Wind power
- B) Solar power
- C) Geothermal and Hydropower**
- D) Biomass energy

9. Australia, with its vast landmass and abundant sunshine, is a significant player in solar energy. What is a key factor limiting its widespread adoption in some remote areas?

- A) Lack of suitable roof space
- B) High population density
- C) Grid connection challenges and distance**
- D) Insufficient solar panel manufacturing

10. Which of these countries has a large potential for geothermal energy due to its location on the Pacific Ring of Fire?

- A) Saudi Arabia
- B) India
- C) Japan**
- D) Ukraine