

Geothermal Energy Quiz PDF

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Which type of geothermal power plant uses steam directly from a geothermal reservoir to turn turbines?

- Binary cycle
- Flash steam
- Dry steam
- Combined cycle

Which of the following is NOT a direct use application of geothermal energy?

- Heating buildings
- DryING crops
- Generating wind power
- Growing plants in greenhouses

What is the main environmental concern associated with geothermal energy?

- Air pollution
- Water contamination
- Deforestation
- Noise pollution

What is the primary use of geothermal heat pumps?

- Generating electricity
- Heating and cooling buildings
- PowerING vehicles
- Water desalination

What is geothermal energy primarily derived from?

- Solar radiation

- Wind currents
- Earth's internal heat
- Ocean tides

Which of the following technologies are used in geothermal energy systems? (Select all that apply)

- Heat pumps
- Solar panels
- TurbinES
- Drilling rigs

What are potential environmental impacts of geothermal energy? (Select all that apply)

- Induced seismicity
- Land subsidence
- High carbon emissions
- Water contamination

Describe the process of generating electricity using a flash steam power plant.

Which countries are known for significant geothermal energy production? (Select all that apply)

- United States
- Iceland
- Brazil
- Philippines

Evaluate the potential for geothermal energy expansion in non-volcanic regions.

What are some advantages of geothermal energy? (Select all that apply)

- Renewable
- High emissions
- Sustainable
- Location-independent

Discuss the role of geothermal heat pumps in residential heating and cooling.

Which of the following regions is most likely to have geothermal resources?

- Desert areas
- Coastal plains
- Tectonically active regions
- Polar ice caps

How does geothermal energy contribute to reducing greenhouse gas emissions?

Which of the following are types of geothermal power plants? (Select all that apply)

- Dry steam
- Flash steam
- Binary cycle
- Hydroelectric

Which country is the largest producer of geothermal energy?

- Philippines
- United States
- Iceland
- Japan

What factors contribute to the economic impact of geothermal energy? (Select all that apply)

- High operational costs
- Energy security
- Cost-effective in the long term
- Limited resource availability

What is a major disadvantage of geothermal energy?

- High carbon emissions
- Non-renewable
- Location-specific
- High operational costs

What are the challenges associated with the development of Enhanced Geothermal Systems (EGS)?

Explain how geothermal energy is considered a renewable resource.

