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Hydroelectric Power Quiz PDF

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What are the benefits of hydroelectric power? (Select all that apply)

- Low operational costs
- High initial investment
- Long lifespan
- High greenhouse gas emissions

Which types of hydroelectric power plants exist? (Select all that apply)

- Impoundment
- Diversio
- Geothermal
- Pumped-storage

Which type of hydroelectric power plant involves storing water in a reservoir behind a dam?

- Impoundment
- O Pumped-storage
- Run-of-the-river

What is a major environmental benefit of hydroelectric power?

- High greenhouse gas emissions
- Renewable energy source
- Large land use
- High operational costs

Which countries are among the top producers of hydroelectric power? (Select all that apply)

- 🗌 Russia
- 🗌 India

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\Box	Canada
	Australia

Evaluate the economic challenges and benefits of developing hydroelectric power projects.

What are some technological advancements that have improved the efficiency of hydroelectric power plants?

Discuss the role of hydroelectric power in global renewable energy production.

What is the purpose of a penstock in a hydroelectric power plant?

- To store water
- \bigcirc To direct water to turbines
- To house generators
- \bigcirc To release water downstream

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What are some environmental challenges of hydroelectric power? (Select all that apply)

- Fish migration issues
- Low greenhouse gas emissions
- Changes in water quality
- Renewable energy source

What is a common challenge associated with hydroelectric power?

- Low initial investment
- O Habitat disruption
- High greenhouse gas emissions
- Inconsistent energy supply

Explain how a turbine in a hydroelectric power plant works to generate electricity.

Which component of a hydroelectric power plant converts mechanical energy into electrical energy?

- ⊖ Dam
- Turbin
- Generator
- ◯ Reservoir

Which of the following are components of a hydroelectric power plant? (Select all that apply)

- 🗌 Dam
- Solar panels
- Turbin
- Generator

Which country is the largest producer of hydroelectric power?

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- United States
- ⊖ Brazil
- ⊖ China
- ⊖ Canada

What is the primary energy source used in hydroelectric power generation?

- Solar energy
- \bigcirc Wind energy
- Flowin water
- Geothermal energy

What advancements are being made in hydroelectric technology? (Select all that apply)

- Improved turbine efficiency
- Fish-friendly technologies
- Increased greenhouse gas emissions
- Small-scale hydroelectric systems

How does a pumped-storage hydroelectric plant differ from an impoundment plant in terms of operation and purpose?

Which historical project is known as the first large-scale hydroelectric power plant?

- O Hoover Dam
- O Three Gorges Dam
- Niagara Falls
- 🔘 Itaipu Dam

Describe the environmental impacts of constructing a large hydroelectric dam.

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