

## Pre-Post questionnaire Poweri noi! Watt should we do?

Answer the following questions; only one answer is correct.

**1. Which of the following power plants produces, on average, the highest emissions?**

- a) Oil-fired power plant
- b) Nuclear power plant
- Natural gas power plant
- Coal-fired power plant

**2. What is the main cause of climate change?**

- a) Greenhouse gas emissions from human activities
- b) Greenhouse gas emissions from the oceans
- c) Deforestation
- d) Geological activity

**3. What is the main advantage of renewable energy sources compared to fossil fuels?**

- a) Higher energy efficiency
- b) Reduction of greenhouse gas emissions
- c) Lower initial investment costs
- d) Unlimited availability

**4. Which unit of measurement is commonly used to estimate the emissions of a power plant or an industry?**

- a) Gigawatt-hour
- b) Grams of CO<sub>2</sub> equivalent
- c) Parts per million (ppm)
- d) Greenhouse gases volume (ggv)

**5. Which of the following power plants is responsible for the highest number of deaths (per unit of energy produced)?**

- a) Hydroelectric power plant
- b) Nuclear power plant
- c) Natural gas power plant
- d) Geothermal power plant

**6. Which international meeting was held with the specific goal of defining rules to reduce greenhouse gas emissions?**

- a) Montreal Protocol
- b) Geneva Convention
- c) Tokyo Treaty
- d) Paris Agreement

**7. Which unit of measurement is commonly used to estimate the energy produced by a power plant?**

- a) Megajoule
- b) Gigawatt-hour
- c) Gigawatt
- d) Gigajoule per year

**8. To counteract greenhouse gas emissions, the best strategy is to promote:**

- a) The creation of green areas in large and medium-sized cities
- b) The abandonment of fossil fuels in favor of renewable sources
- c) The use of electric cars
- d) Recycling and proper waste disposal

**9. Which of the following lists contains only renewable energy sources?**

- a) Wind, solar, nuclear, biomass
- b) Solar, wind, geothermal, biomass
- c) Geothermal, hydroelectric, natural gas, wind
- d) Hydroelectric, oil, wind, geothermal

**10. What are the main characteristics of a biomass power plant?**

- a) Renewable, emits relatively little greenhouse gas, inefficient
- b) Renewable, emits relatively little greenhouse gas, efficient
- c) Non-renewable, emits a lot of greenhouse gas, efficient
- d) Non-renewable, emits a lot of greenhouse gas, inefficient

**11. Which of the following energy production plants produces, on average, the lowest emissions?**

- a) Nuclear power plant
- b) Natural gas power plant
- c) Hydroelectric power plant
- d) Biomass power plant

**12. What is the major limitation of hydroelectric power plants?**

- a) Drought
- b) Limited availability of water reservoirs (natural or artificial)
- c) Impact on aquatic ecosystems
- d) Low energy efficiency

**13. What is the limit for the increase in global average temperature that experts say should not be exceeded?**

- a) 0.5
- b) 1.5
- c) 5
- d) There is no precise limit

**14. What is the most used energy source in Italy?**

- a) Hydroelectric
- b) Solar
- c) Coal
- d) Natural gas

**15. What is the most used renewable energy source in Italy?**

- a) Wind
- b) Geothermal
- c) Solar
- d) Hydroelectric

**16. How many nuclear power plants are there in Italy?**

- a) None
- b) 1
- c) 5
- d) 10

**17. The typical efficiency of a standard solar panel is:**

- a) Very high: >90%
- b) Excellent: 70–80%
- c) Medium: 45–55%
- d) Low: 10–30%

**18. Emissions related to a solar power plant mainly occur:**

- a) During the construction phase
- b) During the production phase
- c) During both construction and production phases
- d) It has no emissions because it is a renewable source

**19. Which countries are most exposed to the consequences of climate change?**

- a) Developed countries
- b) Developing countries
- c) All countries equally
- d) Coastal countries