

Renewable Energy and Your Health

Renewable Energy · Answer Key · 10 Questions

1. Which renewable energy source generally produces the least air pollution, contributing to better respiratory health?

A) Biomass burning

B) Geothermal energy

C) Coal-fired power plants

D) Internal combustion engines

2. Exposure to which type of pollution is significantly reduced by transitioning to renewable energy sources like solar and wind, which can improve lung function?

A) Ultraviolet radiation

B) Noise pollution

C) Particulate matter from burning fossil fuels

D) Natural background radiation

3. Compared to fossil fuels, renewable energy sources often result in fewer emissions of greenhouse gases that contribute to climate change. How does this indirectly benefit human health?

A) By increasing the risk of heatstroke

B) By reducing the spread of vector-borne diseases

C) By causing more skin cancers

D) By making breathing harder

4. Which renewable energy technology, when implemented, typically does NOT release harmful airborne toxins that can affect the lungs?

A) Burning wood for heat

B) Hydroelectric dams

C) Gasoline-powered generators

D) Diesel engines

5. Reliance on fossil fuels can lead to the release of mercury into the environment. What organ can be most severely affected by mercury poisoning, often from contaminated fish?

A) Skin

B) Bones

C) Brain and nervous system

D) Hair

6. Renewable energy sources like solar and wind power do not typically produce the sulfur dioxide and nitrogen oxides that contribute to acid rain. How can reducing acid rain benefit human health?

- A) It can increase exposure to harmful UV rays.
- B) It can lead to more respiratory illnesses.
- C) It can contaminate water sources with heavy metals.
- D) It can improve air quality, reducing asthma symptoms.**

7. Which of these renewable energy sources primarily utilizes the Earth's internal heat, which has minimal impact on air quality and respiratory health?

- A) Solar panels
- B) Wind turbines
- C) Geothermal power plants**
- D) Tidal barrages

8. Generating electricity from fossil fuels can release fine particulate matter. Inhaling this can lead to what common health issue?

- A) Improved vision
- B) Increased appetite
- C) Heart and lung problems**
- D) Stronger bones

9. Transitioning to cleaner energy reduces the need for burning fossil fuels. This reduction in air pollutants can help prevent or manage which common health condition?

- A) Diabetes
- B) Asthma**
- C) Arthritis
- D) Allergies to sunlight

10. Some renewable energy technologies, like solar and wind farms, can have a smaller land footprint than extensive mining operations for fossil fuels. This can lead to less environmental disruption and, indirectly, impact health by:

- A) Increasing the risk of landslides
- B) Reducing exposure to contaminated soil and water**
- C) Causing more noise pollution
- D) Making it harder to access fresh air