

Renewable Energy and the Natural World

Renewable Energy · Practice Test · 8 Questions

1. Which bird species is most frequently monitored for collision risks at modern wind farm sites?

- A) Golden Eagle
- B) House Sparrow
- C) Peregrine Falcon
- D) Mallard Duck

2. How do underwater noise levels from offshore wind turbine foundations typically affect marine mammals like dolphins?

- A) They attract prey species
- B) They can mask communication sounds
- C) They increase migration speed
- D) They have no measurable effect

3. What is a primary environmental benefit of using floating solar panels on irrigation reservoirs compared to land-based systems?

- A) They increase soil salinity
- B) They reduce water evaporation
- C) They prevent fish spawning
- D) They emit methane gas

4. How does the construction of large-scale solar farms typically impact local ground-dwelling reptile populations?

- A) It increases their thermal range
- B) It causes habitat fragmentation
- C) It forces them to hibernate longer
- D) It has no impact on their territory

5. Which type of renewable energy facility is known to sometimes interfere with the migratory paths of bats due to pressure changes near blades?

- A) Solar thermal plants
- B) Geothermal stations
- C) Wind turbines
- D) Hydroelectric dams

6. What negative impact can traditional large-scale hydroelectric dams have on salmon populations?

- A) Increase in water salinity
- B) Blocking of upstream spawning migration
- C) Excessive cooling of river water
- D) Reduction in underwater oxygen

7. How can solar panels in deserts affect the local microclimate for flora?

- A) They permanently freeze the sand
- B) They increase ground humidity by providing shade
- C) They prevent all plant growth
- D) They reflect radiation onto plants causing fires

8. What is a common strategy used to make wind turbines safer for avian wildlife?

- A) Painting blades bright red
- B) Installing ultrasonic noise emitters
- C) Painting one blade black to increase visibility
- D) Reducing blade speed during daylight