

Nearly Zero-Energy Buildings_Reading Activity

Nearly zero-emission building (NZEB) means a building that has a very high energy performance, while the nearly zero or very low amount of energy required should be covered to a very significant extent by energy from renewable sources, including energy from renewable sources produced on-site or nearby.

What are Nearly Zero-Energy Buildings?

A Nearly Zero-Energy Building isn't literally an energy-free building. When we talk about nearly zero-energy buildings, we mean buildings that on the one hand **consume nearly as much energy as they produce**. This energy, in turn, comes from **renewable sources**, produced locally or in the surroundings.

This means that NZE Buildings will continue to consume energy, but this energy will have a low impact on the environment, so they won't consume energy from non-renewable sources such as oil or petroleum, natural gas, coal or uranium.

Reading Activity

- 1. What does NZEB stand for?**
 - A. Nearly Zero-Energy Building
 - B. Non-Zero Emission Building
 - C. Nearly Zero-Emission Building
 - D. New Zealand Energy Building
- 2. How does NZEB compare to traditional buildings in terms of energy consumption?**
 - A. NZEBS consume less energy than traditional buildings
 - B. NZEBS do not consume any energy
 - C. NZEBS consume the same amount of energy as traditional buildings
 - D. NZEBS consume more energy than traditional buildings
- 3. Why is NZEB important for promoting sustainable development?**
 - A. It has a negative impact on sustainable development
 - B. It has no impact on sustainable development
 - C. It reduces reliance on non-renewable energy sources
 - D. It reduces reliance on renewable energy sources

4. **What is the main source of energy for NZEBs?**

- A. Natural gas
- B. Oil and petroleum
- C. Coal
- D. Renewable sources

5. **What is the role of renewable energy sources in NZEBs?**

- A. To have a low impact on the environment
- B. To provide all of the building's energy needs
- C. To cover a significant portion of the building's energy needs
- D. To reduce the building's energy consumption

6. **What is the definition of a Nearly Zero-Emission Building (NZEB)?**

- A. A building that has a high energy performance and uses renewable energy sources
- B. A building that is completely energy-free
- C. A building that consumes a low amount of energy from non-renewable sources
- D. A building that produces more energy than it consumes

Vocabulary Activity:

impact, energy performance, natural gas, renewable sources, petroleum

1. The adoption of _____ such as solar and wind power is essential for a more sustainable energy future.
2. When assessing a building's overall sustainability, it's crucial to evaluate its _____ and identify areas for improvement.
3. The use of _____ for electricity generation can contribute to a significant reduction in greenhouse gas emissions.
4. While petroleum is a versatile and widely used energy source, its extraction and consumption can have adverse environmental _____.
5. Energy policies often focus on reducing dependence on non-renewable sources such as _____.