

## 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 \_\_\_\_\_.