

Part 1 – Energy Efficiency and Sustainability Overview

Review Questions

1. Which of the following is an aspect of the sustainability triple bottom line?
 - a. Environmental
 - b. Financial
 - c. Social
 - d. **All of the above**

2. Building energy consumption contributes to an organization's carbon footprint.
 - a. **True**
 - b. False

3. Building energy consumption increases over time without intervention because:
 - a. Changes to occupancy and building use are made.
 - b. Energy conservation settings, such as temperature setbacks are overridden or not set up properly.
 - c. Energy costs increase over time.
 - d. **a and b**

4. Which of the following is a common Green-up strategy?
 - a. Use natural daylight.
 - b. Lighting fixture retrofits.
 - c. Water conservation.
 - d. **All of the above.**
 - e. None of the above.

5. The heat island effect is:
 - a. The phenomenon where tropical islands are hotter than the mainland.
 - b. Where all roofs are vegetative roofs.
 - c. **When the temperature of an urban area is higher than the surrounding area.**
 - d. Where all the roofs are composed of black materials.

6. How much energy of the total energy produced is consumed by buildings?
 - a. 29%
 - b. 30%
 - c. **41%**

Fundamentals of Energy Efficient Building Operations



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7. Under which category can you find a building's energy cost?
 - a. Fixed cost.
 - b. Utility cost**
 - c. Administrative cost.

 8. How much of the average operating budget is spent on energy and water?
 - a. 73%.
 - b. 38%.
 - c. 22%.**
 - d. 2%.

 9. Re-tuning is a process where the building is optimized for efficient operations.
 - a. True**
 - b. False

 10. Which of the following are included in the SMART principles for objectives?
 - a. Specific.
 - b. Measurable.
 - c. Actionable.
 - d. Relevant.
 - e. A, B, and D.**