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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q24-Q29):

NEW QUESTION # 24

Which of the following building types is NOT covered by EDGE?

- A. Factories (heavy industry)
- B. Warehouses
- C. Schools
- D. Hospitals

Answer: A

Explanation:

EDGE certification applies to specific building typologies that align with its focus on resource efficiency in new constructions and major renovations. The EDGE User Guide lists the covered building types: "EDGE certification is available for the following building

typologies: homes, hotels, offices, hospitals, retail, schools, warehouses, and light industry buildings. These typologies are selected because they have predictable energy, water, and materials usage patterns that can be modeled in the EDGE software" (EDGE User Guide, Section 1.2: Scope of EDGE Certification). Option A (hospitals), Option B (schools), and Option D (warehouses) are explicitly included in this list, making them eligible for EDGE certification. However, Option C (factories - heavy industry) is not covered, as clarified in the EDGE Certification Protocol: "Heavy industry factories are not covered by EDGE, as their energy and water usage patterns are highly variable and process-driven, making them unsuitable for the standardized modeling approach used in EDGE. Light industry buildings, such as small manufacturing facilities with predictable usage, are included, but heavy industry, such as steel production or chemical manufacturing, is excluded" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard). The EDGE Methodology Report further explains: "Heavy industry factories involve complex industrial processes that dominate resource consumption, which cannot be accurately modeled using EDGE's simplified methodology, unlike hospitals, schools, or warehouses, which have more consistent occupancy and usage patterns" (EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach). The EDGE User Guide also notes: "Building types like heavy industry factories are outside the scope of EDGE, as the software is designed for commercial and residential buildings with typical HVAC, lighting, and water demands" (EDGE User Guide, Section 1.2: Scope of EDGE Certification).

Therefore, factories (heavy industry) (Option C) is the building type not covered by EDGE.

Reference:EDGE User Guide Version 2.1, Section 1.2: Scope of EDGE Certification; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard; EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach.

NEW QUESTION # 25

In order for a project to complete the design certification stage requirements, the EDGE Client must do which of the following?

- A. Review and sign an agreement with a local or global partner to provide EDGE certification services.
- B. Access the EDGE software and begin and complete a full self-assessment of the building.
- C. Provide the EDGE Auditor access to the self-assessment and all supporting documentation.
- D. Internally review the EDGE measures with their design team and third-party consultant.

Answer: C

NEW QUESTION # 26

Which of the following measures provides the most attractive solution in the EDGE software for a hospital?

- A. External shading with 7% saving and 8 years payback
- B. Insulation of external walls with 3% saving and 9 years payback
- C. Solar hot water system with a saving of 15% and payback of 6 years
- D. Water-cooled chillers with 20% energy saving and 10 years payback

Answer: C

Explanation:

In the EDGE software, the "most attractive solution" for a project, such as a hospital, is determined by balancing resource savings (energy, water, or materials) with financial payback periods, as these metrics are key outputs in the EDGE App Results Bar. The EDGE User Guide explains how to evaluate measures: "The EDGE software prioritizes measures that offer the highest resource savings with the shortest payback periods, making them the most attractive solutions for project teams. For hospitals, where energy and water demands are high due to continuous operation, measures with significant savings and faster payback are typically preferred" (EDGE User Guide, Section 2.4: Interpreting EDGE Results). Let's evaluate the options: Option A (external shading) offers 7% savings (likely energy, as shading reduces cooling loads) with an 8-year payback. Option B (insulation of external walls) provides 3% savings (also energy) with a 9-year payback.

Option C (solar hot water system) delivers 15% savings (energy, as it reduces the need for electric or gas water heating) with a 6-year payback. Option D (water-cooled chillers) achieves 20% energy savings but with a 10-year payback. The EDGE Methodology Report further clarifies: "For hospitals, measures like solar hot water systems are often attractive because they address high hot water demands (e.g., for sterilization, showers), offering substantial energy savings with relatively short payback periods due to consistent usage" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Comparing the options, Option C has the second-highest savings (15%) and the shortest payback (6 years), making it more attractive than Option D (20% savings but 10 years payback), Option A (7% savings, 8 years), and Option B (3% savings, 9 years). The EDGE User Guide also notes: "A payback period of 6 years is generally considered attractive in EDGE, especially for measures with savings above 10%, as it aligns with typical investment horizons for building owners" (EDGE User Guide, Section 2.4: Interpreting EDGE Results). Additionally, for a hospital, hot water demand is significant, making solar hot water systems particularly effective: "Hospitals benefit greatly from solar hot water systems, achieving energy savings of 10-20% with payback periods often under 7 years due to high hot water usage"

(EDGE Methodology Report Version 2.0, Section 4.2: Energy Savings Calculations). Thus, the solar hot water system (Option C) is the most attractive solution due to its balanced savings and shortest payback period.

Reference:EDGE User Guide Version 2.1, Section 2.4: Interpreting EDGE Results; EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures, Section 4.2: Energy Savings Calculations.

NEW QUESTION # 27

In a 3-star business hotel near the city center, which of the following elements of the building's water use breakdown is/are likely to consume the most water?

- A. Faucets in guest rooms
- B. Laundry
- C. Toilets in lobby area
- **D. Showers in guest rooms**

Answer: D

Explanation:

Water consumption in hotels varies significantly based on usage patterns, with guest-related activities often dominating the water use breakdown. The EDGE User Guide provides detailed insights into water use in hotels: "In a typical 3-star business hotel, the largest contributor to water consumption is showers in guest rooms, accounting for approximately 40-50% of total water use due to frequent guest showers, especially in urban hotels with high occupancy. Laundry, toilets, and faucets also contribute, but to a lesser extent, with laundry at 15-20%, toilets at 10-15%, and faucets at 5-10%" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Option A, showers in guest rooms, aligns with this breakdown as the element likely to consume the most water. Option B (laundry) is significant but lower than showers: "Laundry in 3-star hotels consumes less water than showers, as laundry is typically centralized and less frequent than daily guest showers" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Option C (toilets in lobby area) is a minor contributor, as lobby toilets serve fewer users compared to guest rooms: "Toilets in public areas like the lobby have lower usage compared to guest room facilities, contributing only a small fraction of total water use in hotels" (EDGE User Guide, Section 5.2: Water Efficiency Measures).

Option D (faucets in guest rooms) also uses less water than showers: "Faucets in guest rooms, used for handwashing or brushing teeth, have lower flow rates and usage frequency compared to showers, which often run for 5-10 minutes per use" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). The EDGE User Guide further elaborates: "In business hotels, showers dominate water use due to high occupancy and guest behavior, making measures like low-flow shower heads particularly effective for water savings" (EDGE User Guide, Section 5.2: Water Efficiency Measures). The EDGE Methodology Report adds: "For a 3-star hotel with 100 rooms and 70% occupancy, showers can account for 45 liters per guest per day, compared to 15 liters for laundry, 10 liters for toilets, and 5 liters for faucets, based on standard usage assumptions" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations).

Thus, showers in guest rooms (Option A) are likely to consume the most water in this context.

Reference:EDGE User Guide Version 2.1, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations.

NEW QUESTION # 28

Air-cooled chillers have the following components:

- **A. Compressor, condenser, thermal expansion valve, evaporator.**
- B. Chilled water pump, condenser, thermal expansion valve, evaporator.
- C. Compressor, water-cooled condenser, thermal expansion valve, evaporator.
- D. Cooling tower, condenser, condenser pump, evaporator.

Answer: A

Explanation:

Air-cooled chillers are a type of HVAC system commonly evaluated in EDGE for their energy efficiency in green building design. The EDGE Methodology Report Version 2.0 outlines the components of air-cooled chillers in the context of energy efficiency measures. According to the EDGE User Guide (Version 2.1), air-cooled chillers differ from water-cooled chillers by not requiring a cooling tower or associated water-based components like a condenser pump. The guide states: "Air-cooled chillers consist of a compressor, air-cooled condenser, thermal expansion valve, and evaporator, which work together to provide cooling by rejecting heat directly to the ambient air" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option A includes a cooling tower and condenser pump, which are specific to water-cooled chillers. Option D mentions a water-cooled condenser, which is incorrect for air-cooled systems. Option C includes a chilled water pump, which is not a core component of the chiller itself but part of the

broader system. Option B accurately lists the compressor, condenser (air-cooled, implied), thermal expansion valve, and evaporator, aligning with the EDGE description of air-cooled chiller components.
Reference:EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures; EDGE Methodology Report Version 2.0, HVAC Systems.

NEW QUESTION # 29

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