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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q19-Q24):

NEW QUESTION # 19

A building is located in a hot and dry climate where water availability (rainfall) is low. Which of the following measures will give the lowest water savings?

- A. Rainwater harvesting
- B. Dual flush for water closets
- C. Recycle black water
- D. Low-flow showers

Answer: A

Explanation:

In a hot and dry climate with low rainfall, water efficiency measures in EDGE are evaluated based on their potential to reduce potable water demand, but their effectiveness depends on local conditions. The EDGE User Guide explains the impact of various water-saving measures: "In regions with low rainfall, rainwater harvesting provides minimal water savings due to limited precipitation, whereas measures like low-flow showers, dual flush toilets, and black water recycling can achieve consistent savings by reducing direct water use or reusing wastewater" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Option B, rainwater harvesting, relies on rainfall to collect water for non-potable uses, but in a hot and dry climate with low water availability, its effectiveness is limited: "Rainwater harvesting systems in EDGE are modeled based on local precipitation data. In arid climates with annual rainfall below 200 mm, savings from rainwater harvesting are typically less than 5% of total water demand, as the collected volume is insufficient to meet significant needs" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). In contrast, Option A (low-flow showers) reduces water use directly: "Low-flow showers can reduce water consumption by 20-30% in buildings, regardless of climate, by limiting flow rates to 6-8 liters per minute" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Option C (recycle black water) also offers consistent savings: "Black water recycling systems can save 30-40% of water demand by treating and reusing wastewater for flushing or irrigation, independent of rainfall" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Option D (dual flush for water closets) similarly provides reliable savings: "Dual flush toilets reduce water use by 25-35% by offering a low-flush option for liquid waste, effective in all climates" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Given the low rainfall in a hot and dry climate, rainwater harvesting (Option B) yields the lowest water savings compared to the other measures, which do not depend on precipitation. The EDGE User Guide further notes: "In dry climates, measures like rainwater harvesting are often the least effective, while demand-side measures (e.g., low-flow fixtures) and recycling systems provide higher and more consistent water savings" (EDGE User Guide, Section 5.3: Additional Water Efficiency Measures). Thus, rainwater harvesting (Option B) gives the lowest water savings in this context.

Reference: EDGE User Guide Version 2.1, Section 5.2: Water Efficiency Measures, Section 5.3: Additional Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations.

NEW QUESTION # 20

What does the EDGE Auditor provide in the EDGE certification process for a project they are auditing?

- A. Recommendation of materials and building systems
- **B. Recommendation for certification**
- C. Approval of the building design
- D. Building design services

Answer: B

Explanation:

The role of the EDGE Auditor in the certification process is strictly defined to ensure independence and objectivity. The EDGE Expert and Auditor Protocols state: "The EDGE Auditor's primary role in the certification process is to conduct an independent audit of the project's self-assessment and supporting documentation, providing a recommendation for certification to the Certification Provider based on compliance with EDGE standards" (EDGE Expert and Auditor Protocols, Section 2.2: Roles of EDGE Auditor). Option C, recommendation for certification, aligns with this responsibility. Option A (building design services) and Option D (recommendation of materials and building systems) are incorrect, as these are roles of the EDGE Expert or design team, not the Auditor: "Auditors do not provide design services or recommend materials; their role is to verify, not advise" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest).

Option B (approval of the building design) is also incorrect, as Auditors do not approve designs but assess compliance: "Final approval of certification is granted by the Certification Provider, not the Auditor" (EDGE Certification Protocol, Section 3.1: Certification Process). Thus, the Auditor provides a recommendation for certification (Option C).

Reference: EDGE Expert and Auditor Protocols, Section 2.2: Roles of EDGE Auditor, Section 2.3: Conflict of Interest; EDGE Certification Protocol, Section 3.1: Certification Process.

NEW QUESTION # 21

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 # 22

Increasing the glazing area of an office building will NOT impact which of the following?

- A. Heating demand
- B. Cooling demand
- C. Lighting energy
- **D. Hot water demand**

Answer: D

Explanation:

Increasing the glazing area in an office building affects various aspects of energy consumption due to changes in heat gain, heat loss, and natural light availability, but it does not influence all buildingsystems. The EDGE User Guide explains the impacts of glazing: "Increasing the glazing area (window-to-wall ratio, WWR) in an office building typically increases cooling demand due to higher solar heat gain, increases heating demand in colder climates due to greater heat loss through windows, and reduces lighting energy by allowing more natural daylight, assuming proper daylighting design" (EDGE User Guide, Section 3.5: Passive Design Strategies). Option A (cooling demand) is affected, as more glazing increases solar heat gain: "Higher WWR leads to greater cooling loads in hot climates due to increased solar radiation entering the building" (EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods). Option B (heating demand) is also impacted, particularly in cooler climates: "Larger glazing areas increase heat loss in cold climates, raising heating demand due to the lower thermal resistance of windows compared to walls" (EDGE User Guide, Section 4.1: Insulation Measures). Option C (lighting energy) is affected, as more glazing can reduce the need for artificial lighting: "Increased glazing can lower lighting energy by enhancing daylight penetration, provided glare is controlled" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). However, Option D (hot water demand) is not impacted by glazing area, as hot water use is tied to occupant activities (e.

g., showers, cleaning) rather than building envelope design: "Hot water demand in EDGE is determined by occupant use patterns, such as the number of showers or laundry cycles, and is not influenced by glazing area or WWR" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). The EDGE User Guide further confirms: "Glazing area impacts energy-related metrics like cooling, heating, and lighting, but has no direct effect on hot water demand, which is calculated separately based on usage assumptions" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Therefore, increasing glazing area does not impact hot water demand (Option D).

Reference: EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies, Section 4.1: Insulation Measures, Section 4.4: Lighting Efficiency Measures, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.2:

NEW QUESTION # 23

Variable speed drives in HVAC systems help:

- A. Increase the speed.
- B. Reduce water consumption.
- C. Reduce the speed.
- D. Reduce energy consumption.

Answer: D

Explanation:

Variable speed drives (VSDs) are a recognized energy efficiency measure in EDGE for optimizing HVAC system performance. The EDGE User Guide explains their role: "Variable speed drives in HVAC systems, such as those used in fans and pumps, adjust the motor speed to match the load demand, significantly reducing energy consumption compared to fixed-speed systems. This measure can achieve up to 30% energy savings in HVAC operations" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option C, reduce energy consumption, directly aligns with this description. Option A (reduce the speed) and Option B (increase the speed) are partially correct in that VSDs adjust speed, but the primary benefit in EDGE is energy savings, not speed adjustment itself. "The goal of VSDs in EDGE is energy reduction through speed modulation, not speed adjustment as an end" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option D (reduce water consumption) is incorrect, as VSDs impact energy use, not water: "VSDs are an energy measure and do not directly affect water consumption in HVAC systems" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Thus, VSDs help reduce energy consumption (Option C).

Reference:EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics.

NEW QUESTION # 24

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