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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q10-Q15):

NEW QUESTION # 10

The Base Case for utility costs:

- A. Includes the cost of virtual energy.
- B. Excludes the cost of virtual energy only in homes.
- C. Includes the cost of virtual energy only in homes.
- D. Excludes the cost of virtual energy.

Answer: A

Explanation:

In EDGE, the Base Case is a standardized benchmark used to calculate utility cost savings, reflecting typical resource consumption for a building in its location and typology. The term "virtual energy" in EDGE refers to the energy required for heating, cooling, lighting, and other systems, modeled as if the building operates under typical conditions without efficiency measures. The EDGE User

Guide explains how utility costs are calculated: "The Base Case for utility costs includes the cost of virtual energy, which represents the modeled energy consumption for the building type in the absence of efficiency measures, alongside water consumption, using local tariffs to estimate financial impacts" (EDGE User Guide, Section 2.3: Using the EDGE App). Option B, includes the cost of virtual energy, aligns with this approach, as the Base Case accounts for all modeled energy use to establish a baseline for savings. Option A (excludes the cost of virtual energy) is incorrect, as virtual energy is a core component of the Base Case: "Virtual energy in EDGE is the theoretical energy use calculated for the Base Case, including heating, cooling, and lighting, and its cost is always included in utility cost calculations" (EDGE Methodology Report Version 2.0, Section 4.4: Cost Savings Calculations). Option C (excludes the cost of virtual energy only in homes) and Option D (includes the cost of virtual energy only in homes) are also incorrect, as the treatment of virtual energy is consistent across all typologies: "The Base Case methodology, including the inclusion of virtual energy costs, applies uniformly to all building types in EDGE, whether homes, hotels, or offices, to ensure a fair comparison of savings" (EDGE User Guide, Section 2.3: Using the EDGE App). The EDGE Methodology Report further clarifies: "Utility costs in the Base Case are derived from virtual energy and water consumption, reflecting typical usage patterns for the building type and location, ensuring that savings calculations are comprehensive and include all relevant energy demands" (EDGE Methodology Report Version 2.0, Section 4.4: Cost Savings Calculations). This consistent inclusion of virtual energy costs across all typologies makes Option B the correct answer.

Reference: EDGE User Guide Version 2.1, Section 2.3: Using the EDGE App; EDGE Methodology Report Version 2.0, Section 4.4: Cost Savings Calculations.

NEW QUESTION # 11

Which of the following is NOT a characteristic of the EDGE standard?

- A. Fast tool with ideal measures for the best return on investment
- B. Smart, as capital costs and payback period for buildings are displayed
- C. Simple, as beneath the intuitive interface is a powerful engine that understands local climate and how buildings will be used
- D. Holistic approach that takes into account wider sustainability issues

Answer: D

Explanation:

The EDGE standard is designed to be a practical, focused tool for green building certification, emphasizing specific resource efficiency metrics. The EDGE User Guide describes its characteristics: "EDGE is a simple, fast, and smart tool for green building certification. It provides an intuitive interface with a powerful engine that accounts for local climate and building use (simple), identifies measures with the best return on investment (fast), and displays capital costs and payback periods (smart)" (EDGE User Guide, Section 1.1: Introduction to EDGE). Options A, C, and D align with these descriptions. However, Option B (holistic approach that takes into account wider sustainability issues) is not a characteristic of EDGE, as the standard focuses narrowly on energy, water, and embodied energy in materials, not broader sustainability issues like biodiversity or social equity. This is clarified in the EDGE Certification Protocol: "EDGE is not a holistic sustainability standard; it specifically targets resource efficiency in energy, water, and materials, excluding wider sustainability metrics such as indoor air quality or ecological impact" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard). Thus, Option B is not a characteristic of the EDGE standard.

Reference: EDGE User Guide Version 2.1, Section 1.1: Introduction to EDGE; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard.

NEW QUESTION # 12

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

Answer: D

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 # 13

Which of the following parameters can be found in the EDGE App Results Bar?

- A. Incremental cost
- B. Climate conditions
- C. Occupant use
- D. Building type

Answer: A

Explanation:

The EDGE App Results Bar displays key outputs of the software analysis after a project is modeled. The EDGE User Guide details the contents of the Results Bar: "The EDGE App Results Bar provides a summary of the project's performance, including percentage savings in energy, water, and embodied energy in materials, as well as the incremental cost, payback period, and carbon emissions reduction" (EDGE User Guide, Section 2.4: Interpreting EDGE Results). Option C, incremental cost, is explicitly mentioned as part of the Results Bar, representing the additional cost of implementing green measures. Option A (building type) and Option B (occupant use) are inputs specified by the user during project setup, not outputs in the Results Bar, as noted: "Building type and occupant use are input parameters, not displayed in the Results Bar" (EDGE User Guide, Section 2.2: Project Setup). Option D (climate conditions) is also an input parameter (selected via location), not an output: "Climate conditions are derived from the selected location and are not shown in the Results Bar" (EDGE Methodology Report Version 2.0, Section 3.2: Climate Data Inputs). Thus, incremental cost (Option C) is the correct parameter found in the Results Bar.

Reference: EDGE User Guide Version 2.1, Section 2.4: Interpreting EDGE Results, Section 2.2: Project Setup; EDGE Methodology Report Version 2.0, Section 3.2: Climate Data Inputs.

NEW QUESTION # 14

In EDGE software, occupancy sensors are used for controlling:

- A. Water taps.
- B. Air conditioners.
- C. External lighting.
- D. Lighting.

Answer: D

Explanation:

Occupancy sensors in the EDGE software are part of energy efficiency measures aimed at reducing unnecessary energy use by automating system operation based on occupant presence. The EDGE User Guide explicitly defines their application: "Occupancy sensors in EDGE are used for controlling lighting in internal areas, automatically turning lights off when spaces are unoccupied to reduce energy consumption. This measure, often listed as EEM23 - Occupancy Sensors for Lighting, can achieve significant savings

in buildings with intermittent occupancy, such as offices or schools" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). Option A, lighting, directly matches this description, as occupancy sensors are primarily associated with lighting control in EDGE. Option B (water taps) is incorrect, as occupancy sensors are not used for water systems in EDGE: "Water taps may be controlled by sensors in some projects, but this is not a recognized measure in EDGE, which focuses on measures like low-flow fixtures for water savings" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Option C (air conditioners) is also incorrect, as occupancy sensors for HVAC are not a standard measure in EDGE: "While occupancy sensors can theoretically control air conditioners, EDGE does not include this as a measure; HVAC efficiency is addressed through measures like variable speed drives or efficient chillers" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option D (external lighting) is not applicable, as EDGE specifies occupancy sensors for internal areas: "Occupancy sensors in EDGE are applied to internal lighting, not external lighting, which may use timers or photocells instead" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). The EDGE Methodology Report further confirms: "The energy savings from occupancy sensors in EDGE are calculated based on reduced lighting hours in internal spaces, reflecting typical usage patterns in commercial buildings" (EDGE Methodology Report Version 2.0, Section 5.4):

Lighting Calculations). Thus, occupancy sensors are used for controlling lighting (Option A).

Reference:EDGE User Guide Version 2.1, Section 4.4: Lighting Efficiency Measures, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics, Section 5.4: Lighting Calculations.

NEW QUESTION # 15

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