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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q54-Q59):

NEW QUESTION # 54

Which of the following must be included in the EDGE Auditor submission for Preliminary Certification?

- A. The Chapter 5 EDGE certification protocol.
- B. The design audit site visit results verified by the EDGE Auditor.
- C. Compliance documents for selected measures.
- D. All of the available design data.

Answer: C

Explanation:

The EDGE Auditor's submission for Preliminary Certification (design stage) must include specific elements to support the recommendation for certification. The EDGE Certification Protocol specifies: "For Preliminary Certification, the EDGE Auditor's submission must include compliance documents for the selected measures, such as drawings, specifications, and manufacturer's data sheets, which verify that the design aligns with the self-assessment in the EDGE software. These documents are reviewed by the

Certification Provider to confirm eligibility" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option C, compliance documents for selected measures, directly matches this requirement. Option A (all available design data) is too broad and not required: "Only documents directly related to the selected measures are needed, not all design data" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option B (Chapter 5 EDGE certification protocol) is incorrect, as this refers to the protocol document itself, not a submission component:

"The certification protocol is a reference, not part of the Auditor's submission" (EDGE Certification Protocol, Section 1.1: Overview). Option D (design audit site visit results) is incorrect, as site visits are not required at the design stage: "Preliminary Certification is based on a desk audit, not a site visit, which occurs at the post- construction stage" (EDGE Certification Protocol, Section 3.3: Certification Decision). Thus, compliance documents (Option C) are required in the submission.
Reference:EDGE Certification Protocol, Section 3.2: Audit Requirements, Section 3.3: Certification Decision, Section 1.1: Overview.

NEW QUESTION # 55

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

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

Answer: C

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: Energy Calculation Methods, Section 4.2: Water Savings Calculations.

NEW QUESTION # 56

To claim efficiency measure Insulation for Cold Storage Envelope, which of the following documents is required as evidence at the preliminary certification stage?

- A. Purchase receipts showing the U-value specification of the cold storage envelope
- B. Drawing(s) showing the U-value specification of the cold storage envelope
- C. Manufacturer's data sheets for the HVAC system
- D. Calculations of Coefficient of Performance (COP)

Answer: B

Explanation:

The preliminary certification stage requires specific documentation to verify the implementation of efficiency measures like Insulation

for Cold Storage Envelope. The EDGE Certification Protocol outlines the evidence requirements: "For measures involving insulation, such as Insulation for Cold Storage Envelope, the Client must provide drawings at the preliminary certification stage that specify the U-value of the installed insulation to demonstrate compliance with the measure's requirements. The U-value must be lower than the Base Case to qualify for savings" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option C, drawings showing the U-value specification of the cold storage envelope, directly aligns with this requirement. Option A (calculations of Coefficient of Performance) is irrelevant, as COP applies to HVAC systems, not insulation:

"COP is used for chillers, not insulation measures" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option B (manufacturer's data sheets for the HVAC system) is also unrelated, as the measure focuses on the envelope, not HVAC: "HVAC documentation is not required for insulation measures" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option D (purchase receipts showing the U-value) is more relevant at the post-construction stage: "Purchase receipts are typically required at the post-construction stage to confirm installation, while drawings suffice for design-stage verification" (EDGE Certification Protocol, Section 3.4: Post-Construction Requirements). Thus, drawings with U-value specifications (Option C) are required at preliminary certification.

Reference:EDGE Certification Protocol, Section 3.2: Audit Requirements, Section 3.4: Post-Construction Requirements; EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures.

NEW QUESTION # 57

Water consumption savings, resulting from greywater recovery, are based on which of the following?

- A. Incremental cost of installation and cost of water consumption at local tariff
- B. Cost of water consumption at local tariff
- C. Improved case water consumption
- **D. Base case water consumption**

Answer: D

Explanation:

Greywater recovery in EDGE is a water efficiency measure, and the software calculates savings by comparing water consumption before and after implementing the measure. The EDGE Methodology Report explains the calculation method: "Water consumption savings from greywater recovery are calculated as the difference between the Base Case water consumption and the Improved Case water consumption after applying the measure. The Base Case represents the typical water use without any efficiency measures, serving as the benchmark for all savings calculations" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Option A, Base Case water consumption, is the correct reference point for determining savings, as it establishes the baseline against which the greywater recovery measure is evaluated. Option B (Improved Case water consumption) is the result after applying the measure, not the basis for savings. Option C (cost of water consumption at local tariff) and Option D (incremental cost of installation and cost of water consumption at local tariff) relate to financial outputs, not the direct calculation of water savings, as clarified:

"Water savings in EDGE are quantified in volume (liters or cubic meters), not cost, though cost savings are derived later using local tariffs" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Thus, greywater recovery savings are based on Base Case water consumption (Option A).

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

NEW QUESTION # 58

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. Water-cooled chillers with 20% energy saving and 10 years payback
- **C. Solar hot water system with a saving of 15% and payback of 6 years**
- D. Insulation of external walls with 3% saving and 9 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 # 59

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