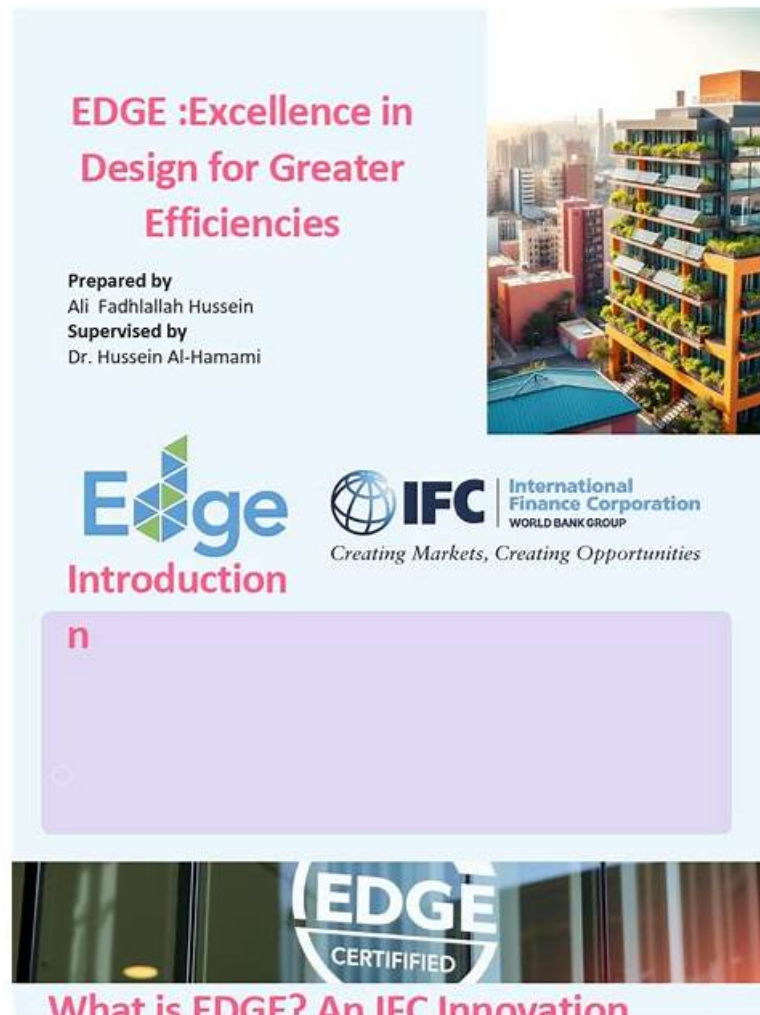


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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q11-Q16):

NEW QUESTION # 11

Which type of evidence is required at the post-construction stage for the efficiency measure window glazing?

- A. Design building elevations marking the window glass specifications
- **B. Manufacturer's data sheets showing the make and model, U-value, and SHGC of the installed glass**
- C. Bill of quantities with the specifications for the window glass highlighted
- D. Window schedule for the building showing the major window glass types if more than one type of glass is present

Answer: B

Explanation:

The post-construction stage in EDGE certification requires evidence to confirm that the efficiency measures claimed in the design stage have been implemented as specified. For window glazing, which affects energy efficiency through its U-value (thermal transmittance) and SHGC (Solar Heat Gain Coefficient), the EDGE Certification Protocol provides clear requirements: "At the post-construction stage, the Client must provide manufacturer's data sheets for the window glazing measure, showing the make and model, U-value, and SHGC of the installed glass, to confirm that the glazing matches the specifications claimed in the self-assessment and meets the energy efficiency requirements" (EDGE Certification Protocol, Section 3.4: Post- Construction Requirements). Option C, manufacturer's data sheets showing the make and model, U-value, and SHGC of the installed glass, directly matches this requirement, as it provides the specific technical data needed to verify compliance. Option A (design building elevations marking the window glass specifications) is relevant at the design stage, not post-construction: "Design elevations are required at the preliminary stage to show intended glazing specifications, not after construction" (EDGE Certification Protocol, Section 3.2:

Audit Requirements). Option B (bill of quantities with specifications highlighted) is insufficient on its own, as it may not provide detailed technical data: "Bills of quantities may support purchase verification, but manufacturer's data sheets are required for technical specifications like U-value and SHGC" (EDGE Certification Protocol, Section 3.4: Post-Construction Requirements). Option D (window schedule showing major glass types) is helpful but not sufficient, as it lacks the detailed technical data: "Window schedules may indicate glass types, but they do not replace the need for manufacturer's data sheets with U-value and SHGC at post-construction" (EDGE User Guide, Section 6.2: Documentation Requirements). The EDGE User Guide further clarifies: "For glazing measures, post-construction evidence must confirm the installed product's performance through manufacturer's data sheets, ensuring alignment with the design-stage claims" (EDGE User Guide, Section 4.1: Insulation Measures). Thus, manufacturer's data sheets (Option C) are required at the post-construction stage.

Reference:EDGE Certification Protocol, Section 3.4: Post-Construction Requirements, Section 3.2: Audit Requirements; EDGE User Guide Version 2.1, Section 6.2: Documentation Requirements, Section 4.1: Insulation Measures.

NEW QUESTION # 12

The Base Case for utility costs:

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

Answer: C

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 # 13

How many years of experience in related fields are required for applicants without a construction-related higher qualification to become an EDGE Expert?

- A. At least 5 years
- B. At least 2 years
- C. At least 1 year
- **D. At least 3 years**

Answer: D

Explanation:

The eligibility criteria for becoming an EDGE Expert are designed to ensure candidates have sufficient background to advise on green building projects. The EDGE Expert and Auditor Protocols specify the requirements for candidates without a construction-related higher qualification: "Applicants without a higher education qualification in a construction-related field (e.g., architecture, engineering) must have a higher education qualification in any field plus at least three years of experience in the construction industry as a skilled professional or tradesperson to qualify for EDGE Expert training and certification" (EDGE Expert and Auditor Protocols, Section 3.1: Eligibility Criteria). Option C, at least 3 years, directly matches this requirement. Option A (at least 1 year) and Option B (at least 2 years) are insufficient, as they fall below the minimum threshold: "Less than three years of experience does not meet the eligibility criteria for candidates without a construction-related degree, as this duration ensures adequate practical knowledge of building design and construction processes" (EDGE Expert and Auditor Protocols, Section 3.1: Eligibility Criteria).

Option D (at least 5 years) exceeds the minimum requirement, which is not necessary: "While additional experience is beneficial, the minimum requirement for EDGE Expert eligibility is three years for non- construction degree holders" (EDGE User Guide, Section 6.4: Working with EDGE Experts). The EDGE Certification Protocol also notes: "The three-year experience requirement for non-construction graduates ensures that EDGE Experts have sufficient industry exposure to provide meaningful consultancy, balancing accessibility with competence" (EDGE Certification Protocol, Section 1.3: Program Structure). Additionally, the EDGE User Guide clarifies: "Candidates with a construction-related degree are exempt from the experience requirement, but those without such a degree must demonstrate at least three years of relevant experience to qualify for the EDGE Expert exam" (EDGE User Guide, Section 6.4: Working with EDGE Experts). Therefore, at least 3 years of experience (Option C) is required for applicants without a construction-related higher qualification.

Reference:EDGE Expert and Auditor Protocols, Section 3.1: Eligibility Criteria; EDGE Certification Protocol, Section 1.3: Program Structure; EDGE User Guide Version 2.1, Section 6.4: Working with EDGE Experts.

NEW QUESTION # 14

What or who determines the baseline assumptions in EDGE?

- A. Market survey of best construction practices
- B. EDGE software users
- C. EDGE Auditors
- **D. Market survey of typical construction practices**

Answer: D

Explanation:

The baseline assumptions in EDGE software, known as the Base Case, are critical for calculating resource savings and are

determined using standardized data. The EDGE Methodology Report explains: "Baseline assumptions in EDGE, referred to as the Base Case, are determined by market surveys of typical construction practices in the project's country, reflecting common materials, systems, and design practices for the selected typology and location" (EDGE Methodology Report Version 2.0, Section 3.1: Base Case Determination).

Option C, market survey of typical construction practices, aligns with this methodology. Option A (EDGE software users) is incorrect, as users do not set the baseline; they input project-specific data. Option B (EDGE Auditors) is also incorrect, as auditors verify compliance, not establish baselines. Option D (market survey of best construction practices) is wrong because EDGE uses typical practices, not best practices, to create a realistic benchmark, as clarified in the EDGE User Guide: "The Base Case reflects typical local practices, not best practices, to ensure a fair comparison for resource savings" (EDGE User Guide, Section 2.3: Using the EDGE App).

Reference:EDGE Methodology Report Version 2.0, Section 3.1: Base Case Determination; EDGE User Guide Version 2.1, Section 2.3: Using the EDGE App.

NEW QUESTION # 15

The COP of the water-cooled chiller is 6, and the cooling thermal load is 3516 W. What is the power rating of the chiller?

- A. 3510 W
- **B. 586 W**
- C. 21096 W
- D. 3522 W

Answer: B

Explanation:

The Coefficient of Performance (COP) is used in EDGE to calculate the electrical power input required for a given thermal output of a chiller. The EDGE Methodology Report defines COP as: "COP is the ratio of thermal output to electrical input, expressed as $COP = \text{Thermal Output} / \text{Electrical Input}$. To find the electrical input (power rating), rearrange the formula: $\text{Electrical Input} = \text{Thermal Output} / COP$ " (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Given the COP of the water-cooled chiller as 6 and the cooling thermal load (thermal output) as 3516 W, the power rating is calculated as follows: $\text{Electrical Input} = 3516 \text{ W} / 6 = 586 \text{ W}$. Option A, 586 W, matches this calculation. Option B (3510 W) is incorrect, as it is slightly less than the thermal output, implying an unrealistic COP near 1. Option C (3522 W) is slightly above the thermal output, also incorrect. Option D (21096 W) is the result of multiplying the thermal output by the COP (3516×6), which is the inverse of the correct calculation. The EDGE User Guide confirms: "For a chiller with a COP of 6, the electrical input is one-sixth of the thermal output, ensuring energy efficiency is accurately assessed" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Thus, the power rating is 586 W (Option A).

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

NEW QUESTION # 16

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