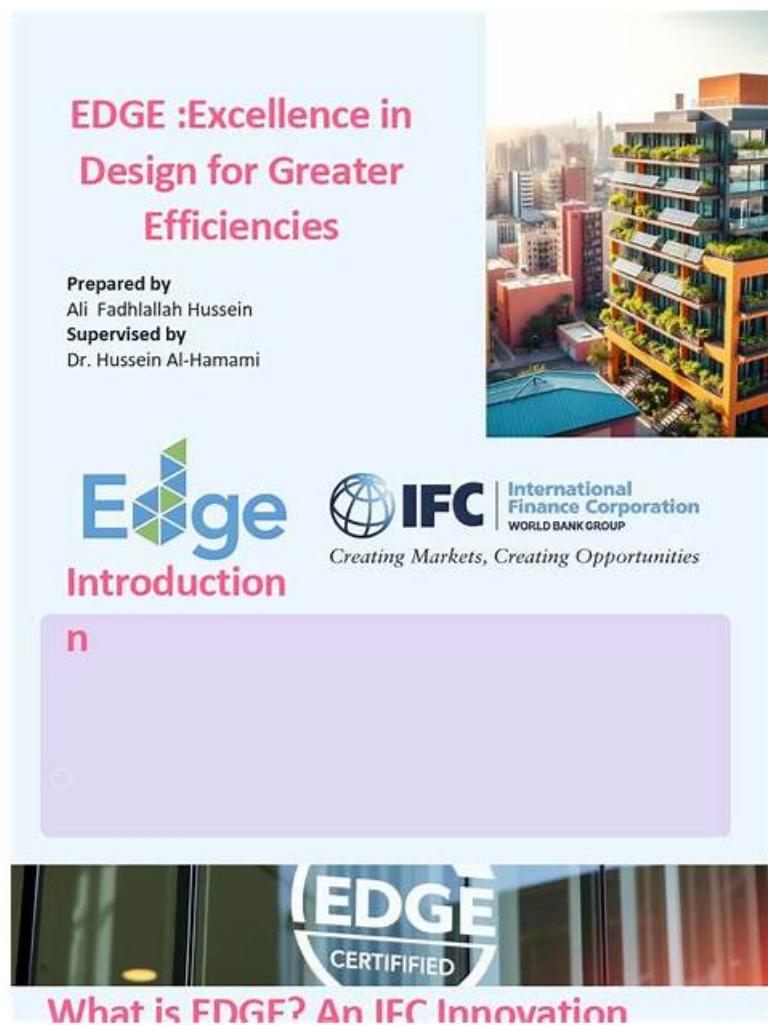


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EDGE :Excellence in Design for Greater Efficiencies

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Edge Introduction

IFC International Finance Corporation
WORLD BANK GROUP
Creating Markets, Creating Opportunities

What is EDGF? An IFC Innovation

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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q64-Q69):

NEW QUESTION # 64

A building owner tells an EDGE Auditor that water-efficient faucets are in the building's restrooms. However, the specifications on the faucets are not provided. The Auditor should:

- A. Find a product that has the same parameters as the building owner describes and upload this for evidence.
- B. Require the building owner to replace the faucets as the audit needs the exact specification.
- C. **Exclude the faucets in question from the project.**
- D. Test the faucets' flow rates to prove the water use and document the findings.

Answer: C

Explanation:

EDGE Auditors must adhere to strict protocols ensuring that all claimed measures are supported by verifiable evidence, especially during audits. The EDGE Expert and Auditor Protocols state: "If a claimed measure, such as water-efficient faucets, lacks supporting documentation like specifications or manufacturer's data sheets, the Auditor must exclude the measure from the project assessment. The Auditor is not permitted to test equipment, substitute evidence, or mandate replacements, as their role is to verify, not rectify, the Client's submission" (EDGE Expert and Auditor Protocols, Section 4.2: Evidence Verification). Option A, exclude the faucets from the project, aligns with this protocol, as the lack of specifications prevents verification. Option B (test the faucets' flow rates) is incorrect, as Auditors cannot conduct tests: "Auditors are not responsible for testing equipment; they must rely on provided documentation" (EDGE Certification Protocol, Section 3.2).

Audit Requirements). Option C (require the owner to replace the faucets) oversteps the Auditor's role:

"Auditors cannot mandate changes to the project; they assess what is submitted" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option D (find a product with the same parameters) is also prohibited: "Auditors cannot substitute or assume evidence on behalf of the Client" (EDGE Expert and Auditor Protocols, Section 4.2: Evidence Verification). Thus, the Auditor should exclude the faucets (Option A).

Reference:EDGE Expert and Auditor Protocols, Section 4.2: Evidence Verification, Section 2.3: Conflict of Interest; EDGE Certification Protocol, Section 3.2: Audit Requirements.

NEW QUESTION # 65

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

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

Answer: C

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 # 66

What or who determines the baseline assumptions in EDGE?

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

Answer: A

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 # 67

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

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

Answer: A

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 # 68

What will reduce the hot water demand in a hotel building?

- A. Heat pumps for hot water
- B. Solar water heating
- C. Solar photovoltaics (PVs)
- D. Low-flow shower heads

Answer: A,B,D

Explanation:

Reducing hot water demand in hotels is a key green building strategy in EDGE, focusing on both supply-side and demand-side measures. The EDGE User Guide details measures that reduce hot water demand: "Hot water demand in hotels can be reduced through supply-side measures like solar water heating and heat pumps for hot water, which decrease the energy needed to heat water, and demand-side measures like low-flow shower heads, which reduce the volume of hot water used" (EDGE User Guide, Section 5.2: Water Efficiency Measures, Section 4.2: Energy Efficiency Measures). Option B (solar water heating) reduces hot water demand by providing a renewable heat source, thus lowering energy use for heating. Option C (low-flow shower heads) directly reduces the volume of hot water used by limiting flow rates: "Low-flow shower heads can reduce hot water consumption by up to 30% in hotels" (EDGE Methodology Report Version 2.0, Section

4.2: Water Savings Calculations). Option D (heat pumps for hot water) reduces energy demand for heating water by using a more efficient system: "Heat pumps for hot water have a high COP, reducing the energy required to meet hot water demand" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option A (solar photovoltaics) generates electricity, not hot water, and does not directly reduce hot water demand:

"Solar PVs contribute to electricity generation, not hot water production" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Thus, Options B, C, and D all reduce hot water demand in a hotel.

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

NEW QUESTION # 69

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