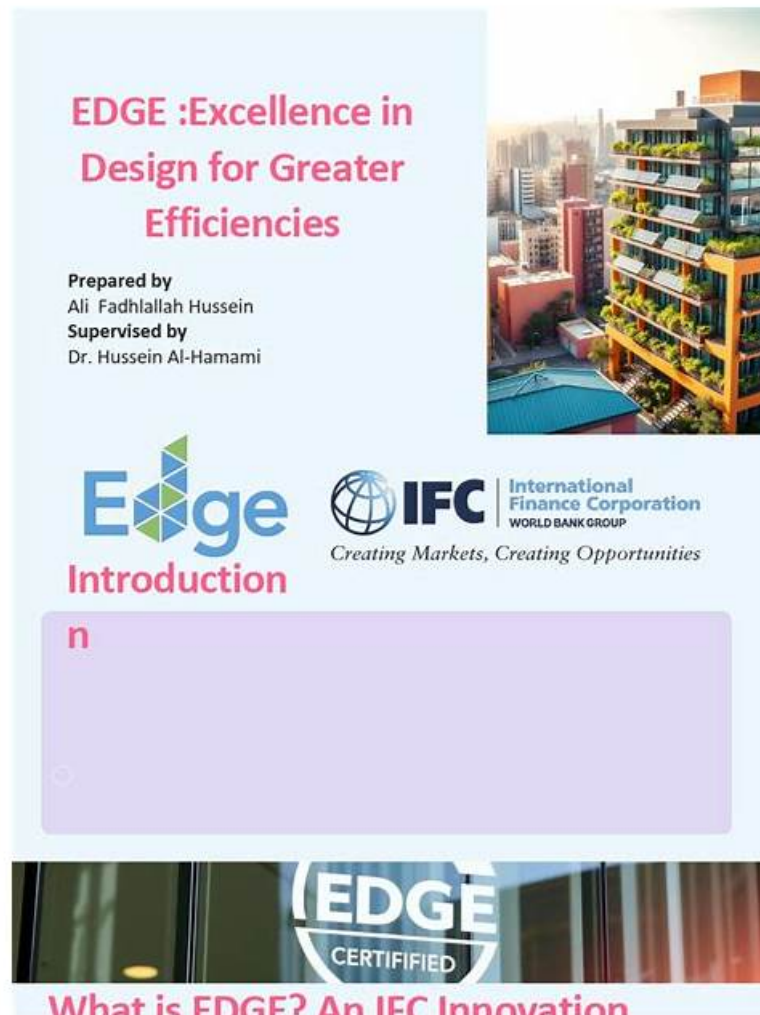


EDGE-Expert Studienmaterialien: Excellence in Design for Greater Efficiencies (EDGE Expert) Exam & EDGE-Expert Zertifizierungstraining



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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam EDGE-Expert Prüfungsfragen mit Lösungen (Q22-Q27):

22. Frage

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

Antwort: B

Begründung:

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.

23. Frage

Which of the following may NOT lead to a higher adoption of green building practices?

- A. Public awareness and capacity building
- B. Green building regulations
- **C. Lower electricity supply costs**
- D. Clear visibility of estimated savings and cost of green measures

Antwort: C

Begründung:

Adoption of green building practices in EDGE is influenced by factors that incentivize or mandate resource efficiency. The EDGE User Guide discusses drivers for green building adoption: "Factors that lead to higher adoption of green building practices include green building regulations, which mandate compliance with efficiency standards; public awareness and capacity building, which educate stakeholders on the benefits of green design; and clear visibility of estimated savings and costs, which provide financial justification for green measures" (EDGE User Guide, Section 1.1: Introduction to EDGE). Option A (green building regulations) directly encourages adoption by enforcing standards: "Regulations requiring energy or water efficiency standards push developers to adopt green practices to meet legal requirements" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard). Option C (public awareness and capacity building) increases adoption by educating stakeholders: "Awareness campaigns and training programs increase demand for green buildings by informing developers, owners, and tenants of their benefits" (EDGE User Guide, Section 1.1: Introduction to EDGE). Option D (clear visibility of estimated savings and costs) incentivizes adoption by demonstrating financial benefits: "EDGE's display of savings and payback periods motivates adoption by showing the return on investment for green measures" (EDGE User Guide, Section 2.4:

Interpreting EDGE Results). However, Option B (lower electricity supply costs) may not lead to higher adoption, as it reduces the financial incentive to save energy: "Lower electricity supply costs decrease the cost savings from energy efficiency measures, potentially discouraging investment in green practices, as the payback period for measures like insulation or efficient lighting becomes longer" (EDGE Methodology Report Version 2.0, Section 4.4: Cost Savings Calculations). The EDGE User Guide further elaborates: "High utility costs often drive green building adoption by making energy and water savings more financially attractive, whereas lower costs can reduce the urgency to implement efficiency measures" (EDGE User Guide, Section 1.2: Scope of EDGE Certification). In this context, lower electricity supply costs (Option B) may not encourage green building practices, as the economic motivation for energy savings diminishes.

Reference: EDGE User Guide Version 2.1, Section 1.1: Introduction to EDGE, Section 1.2: Scope of EDGE Certification, Section 2.4: Interpreting EDGE Results; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard; EDGE Methodology Report Version 2.0, Section 4.4: Cost Savings Calculations.

24. Frage

A potential EDGE Client is pursuing EDGE Zero Carbon certification for a museum. Which of the following statements is correct?

- A. The building must be operating for at least 6 months at 75% occupancy.
- B. The building must be operating for at least 12 months at 75% occupancy.
- C. The project team can select any typology they consider applicable.
- **D. The project cannot be certified because EDGE does not have a 'museum' typology.**

Antwort: D

Begründung:

EDGE Zero Carbon certification, like all EDGE certifications, is limited to specific building typologies supported by the EDGE software, as these typologies have predefined usage patterns for accurate modeling.

The EDGE User Guide lists the supported typologies: "EDGE certification, including EDGE Zero Carbon, is available for the following building typologies: homes, hotels, offices, hospitals, retail, schools, warehouses, and light industry buildings. Museums are not a supported typology in EDGE, as their unique usage patterns, such as specialized HVAC for artifact preservation, are not modeled in the software" (EDGE User Guide, Section 1.2: Scope of EDGE Certification). Option C, the project cannot be certified because EDGE does not have a 'museum' typology, directly aligns with this limitation, as museums are not among the supported building types. Option A (the project team can select any typology they consider applicable) is incorrect, as EDGE requires the use of predefined typologies: "The EDGE software restricts typology selection to predefined categories to ensure accurate Base Case calculations; users cannot create custom typologies for unsupported building types like museums" (EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach). Option B (operating for at least 6 months at 75% occupancy) and Option D (operating for at least

12 months at 75% occupancy) address operational data requirements for EDGE Zero Carbon, but they are irrelevant if the typology is unsupported: "EDGE Zero Carbon certification requires at least 12 months of operational data at 75% occupancy to verify performance, but this applies only to supported typologies" (EDGE Certification Protocol, Section 2.3: Certification Levels). Since museums are not supported, the operational data requirement does not apply, making both B and D incorrect in this context. The EDGE Certification Protocol further confirms: "Buildings like museums, which are not part of EDGE's typology list, cannot be certified, as the software cannot generate a Base Case for unsupported building types, ensuring consistency in certification standards" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard).

The EDGE User Guide adds: "Clients pursuing certification for unsupported typologies, such as museums or cultural centers, will need to explore other green building certifications, as EDGE is not designed for these building types" (EDGE User Guide, Section 1.2: Scope of EDGE Certification). Thus, the project cannot be certified due to the lack of a museum typology (Option C).

Reference:EDGE User Guide Version 2.1, Section 1.2: Scope of EDGE Certification; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard, Section 2.3: Certification Levels; EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach.

25. Frage

In the EDGE software, the Base Case selection of external wall materials in hotels relies on information derived from:

- A. Global building practices as well as international building performance codes, where they are in existence.
- **B. Typical building practices as well as national building performance codes, where they are in existence.**
- C. Local building material suppliers who subscribe to EDGE certification for their materials, or are nationally accredited by the local standards authority.
- D. Hotel developers' corporate standard specifications, or materials which have been accredited by the hotel industry.

Antwort: B

Begründung:

The EDGE software uses a Base Case to establish a benchmark for resource consumption, tailored to local conditions. The EDGE Methodology Report explains how the Base Case is constructed: "The Base Case for external wall materials in hotels is determined using data from market surveys of typical building practices in the project's country, supplemented by national building performance codes where available. This ensures the baseline reflects local construction norms and regulatory standards" (EDGE Methodology Report Version 2.0, Section 3.1: Base Case Determination). Option A matches this description by referencing typical building practices and national codes. Option B incorrectly refers to global practices and international codes, which EDGE does not use, as the software prioritizes local context. Option C, focusing on corporate specifications, is not part of the Base Case methodology, as the Base Case is standardized, not project-specific. Option D, involving local suppliers or accreditation, is irrelevant to how EDGE determines the Base Case, which relies on broader market data rather than supplier-specific information.

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.

26. Frage

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. Showers in guest rooms**
- B. Faucets in guest rooms
- C. Laundry
- D. Toilets in lobby area

Antwort: A

Begründung:

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.

27. Frage

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