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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q43-Q48):

NEW QUESTION # 43

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. 21096 W
- **B. 586 W**
- C. 3522 W
- D. 3510 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 # 44

A medium-rise building comprises retail on the first two floors with offices on succeeding floors (third to fifth). If one of the tenants on the third floor aims for EDGE certification, which building type should be used?

- A. Core and Shell
- B. Mixed-use
- C. Retail
- **D. Office**

Answer: D

Explanation:

The EDGE software requires users to select a building type (typology) to model resource consumption accurately, and the choice depends on the scope of the certification. In this scenario, a tenant on the third floor (an office floor) of a medium-rise building seeks EDGE certification. The EDGE User Guide provides guidance on selecting building types for tenant spaces: "When a tenant within a larger building seeks EDGE certification, the building type should reflect the tenant's space. For an office tenant on the third floor of a mixed-use building, the 'Office' typology should be selected, as the certification applies only to the tenant's space, not the entire building, unless the whole building is being certified" (EDGE User Guide, Section 2.2: Project Setup).

Option A, Office, aligns with this guidance, as the tenant's space is an office. Option B (Retail) is incorrect, as the retail floors are on the first two levels, not the third: "Retail typology would apply if the tenant space were on the retail floors, not the office floors" (EDGE User Guide, Section 2.2: Project Setup). Option C (Mixed-use) is also incorrect, as this typology applies to the entire building, not a single tenant space: "Mixed-use typology is used when the entire building, including all uses (e.g., retail and offices), is being certified, not for individual tenant spaces" (EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach). Option D (Core and Shell) is typically used for buildings certified up to the core and shell stage, not for tenant fit-outs: "Core and Shell typology applies to buildings certified without tenant fit-outs, focusing on the building envelope and systems, not individual tenant spaces like an office" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard). The EDGE User Guide further clarifies: "For tenant-led certifications, the typology should match the tenant's use-e.g., 'Office' for an office tenant-even if the building has multiple uses, ensuring the Base Case reflects the tenant's specific consumption patterns" (EDGE User Guide, Section 2.2: Project Setup). Since the tenant on the third floor operates an office, the Office typology (Option A) is the

correct choice for EDGE certification.

Reference:EDGE User Guide Version 2.1, Section 2.2: Project Setup; EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard.

NEW QUESTION # 45

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

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

Answer: B

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 # 46

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

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

Answer: A

Explanation:

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.

NEW QUESTION # 47

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

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

Answer: D

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 # 48

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