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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30

In the EDGE software, what is the unit of the embodied carbon of the material?

- A. kgCO₂
- B. MJ
- C. BTU
- D. kWh

Answer: A

Explanation:

Embodied carbon in EDGE refers to the carbon emissions associated with the production, transportation, and installation of building materials, a key metric for materials efficiency. The EDGE User Guide specifies how this is measured: "In the EDGE software, the embodied carbon of materials is quantified in kilograms of carbon dioxide equivalent (kgCO₂), reflecting the total greenhouse gas emissions associated with the material's lifecycle, from extraction to installation" (EDGE User Guide, Section 7.2: Materials Efficiency Measures).

Option A, kgCO₂, directly matches this unit, as EDGE uses kgCO₂ to standardize carbon emissions across materials, allowing for comparison and aggregation in the software's results. Option B (MJ) is incorrect, as MJ (megajoules) measures embodied energy, not carbon: "Embodied energy in EDGE is measured in MJ, representing the energy consumed in material production, while embodied carbon is separately calculated in kgCO₂ to assess environmental impact" (EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials). Option C (BTU) is also incorrect, as BTU (British Thermal Units) is an energy unit not used in EDGE for carbon calculations: "EDGE uses metric units like MJ for energy and kgCO₂ for carbon; BTU is not a standard unit in the software" (EDGE User Guide, Section 2.3: Using the EDGE App). Option D (kWh) is another energy unit, typically used for operational energy, not embodied carbon: "kWh is used in EDGE to measure operational energy consumption, such as electricity use, but not for embodied carbon, which is always in kgCO₂" (EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods). The EDGE User Guide further clarifies: "The software displays embodied carbon in kgCO₂ to align with global carbon accounting standards, enabling users to understand the environmental footprint of their material choices" (EDGE User Guide, Section 7.2: Materials Efficiency Measures). The EDGE Methodology Report adds: "For example, concrete might have an embodied carbon of 0.15 kgCO₂ per kg, allowing users to compare materials like fly ash concrete versus standard concrete in terms of carbon impact" (EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials). Thus, the unit of embodied carbon in EDGE is kgCO₂ (Option A).

Reference: EDGE User Guide Version 2.1, Section 7.2: Materials Efficiency Measures, Section 2.3: Using the EDGE App; EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials, Section 5.2: Energy Calculation Methods.

NEW QUESTION # 31

Which of the following is a primary resource for the EDGE Auditor when performing the site visit?

- A. Roof insulation U-value
- B. EDGE software
- C. Window to Wall Ratio (WWR)
- **D. EDGE Auditor's checklist**

Answer: D

Explanation:

During a site visit for post-construction certification, the EDGE Auditor relies on specific tools to verify compliance. The EDGE Expert and Auditor Protocols specify: "The primary resource for an EDGE Auditor during a site visit is the EDGE Auditor's checklist, which provides a structured list of items to verify, including the implementation of selected measures, alignment with the self-assessment, and compliance with EDGE standards" (EDGE Expert and Auditor Protocols, Section 4.4: Site Audit Procedures). Option C, EDGE Auditor's checklist, matches this description as the key resource guiding the audit process. Option A (EDGE software) is a tool for assessment, not a resource for the site visit: "The EDGE software is used for self-assessment and desk audits, not directly during site visits" (EDGE Certification Protocol, Section 3.2:

Audit Requirements). Option B (roof insulation U-value) and Option D (Window to Wall Ratio) are specific data points the Auditor may verify, not primary resources: "U-values and WWR are elements to check, not tools for the Auditor" (EDGE Expert and Auditor Protocols, Section 4.4: Site Audit Procedures). The checklist ensures all aspects of the project are systematically reviewed, making it the primary resource (Option C).

Reference: EDGE Expert and Auditor Protocols, Section 4.4: Site Audit Procedures; EDGE Certification Protocol, Section 3.2: Audit Requirements.

NEW QUESTION # 32

Which of the following hot water technologies is from a renewable source?

- A. High efficiency boiler for water heating
- B. Ground source heat pump
- C. Preheating water using waste heat from the generator
- **D. Solar hot water collectors**

Answer: D

Explanation:

EDGE recognizes renewable energy sources for their contribution to reducing carbon emissions in hot water production. The EDGE User Guide defines renewable hot water technologies: "Solar hot water collectors are considered a renewable source in EDGE, as they directly use solar energy to heat water, reducing reliance on fossil fuel-based energy" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option B, solar hot water collectors, matches this description as it harnesses solar energy, a renewable resource. Option A (ground source heat pump) uses electricity to transfer heat from the ground, which is efficient but not renewable unless the electricity is from a renewable source: "Ground source heat pumps are efficient but rely on electrical input, not classified as a renewable source in EDGE" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option C (high efficiency boiler) typically uses gas or electricity, not a renewable source: "Boilers, even high-efficiency ones, are not renewable as they burn fuel or use grid electricity" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option D (preheating water using waste heat from the generator) is a heat recovery method, not a renewable source: "Waste heat recovery improves efficiency but is not considered a renewable energy source in EDGE" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Thus, solar hot water collectors (Option B) is the renewable source technology.

Reference:EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics, Section 5.3: Energy Measures.

NEW QUESTION # 33

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 # 34

The Client has sent a copy of the local occupancy permit for a project being audited. This permit:

- **A. Does not replace the need to audit all EDGE measures.**
- B. Replaces the need to audit all EDGE measures.
- C. Replaces the need to audit EDGE Materials measures.
- D. Does not replace the need for desktop studies.

Answer: A

Explanation:

An occupancy permit indicates that a building meets local regulatory requirements for occupancy, but it does not address the specific green building measures required for EDGE certification. The EDGE Certification Protocol clearly outlines the role of such permits in

the audit process: "A local occupancy permit provided by the Client confirms that the building complies with local building codes and is ready for use. However, it does not replace the need to audit all EDGE measures, as EDGE certification requires verification of specific energy, water, and materials efficiency measures that are not typically covered by local permits" (EDGE Certification Protocol, Section 3.4: Post-Construction Requirements). Option A, does not replace the need to audit all EDGE measures, directly aligns with this guidance, as the Auditor must still verify each claimed measure (e.g., insulation, low-flow fixtures, fly ash concrete) against EDGE standards. Option B (replaces the need to audit all EDGE measures) is incorrect, as the permit does not address EDGE-specific requirements:

"Local permits do not verify EDGE measures like energy savings or embodied energy reductions, so a full audit is still required" (EDGE Expert and Auditor Protocols, Section 4.4: Site Audit Procedures). Option C (does not replace the need for desktop studies) is partially correct but less comprehensive, as desktop studies are only one part of the audit process: "Desktop studies are part of the audit, but the occupancy permit does not exempt any aspect of the EDGE audit, including site visits and measure verification" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option D (replaces the need to audit EDGE Materials measures) is also incorrect, as materials measures (e.g., use of fly ash concrete) require specific evidence like manufacturer's data sheets, not covered by an occupancy permit: "Materials measures require detailed documentation of embodied energy reductions, which local permits do not address" (EDGE User Guide, Section 7.2: Materials Efficiency Measures). The EDGE User Guide further reinforces: "The Auditor must verify all EDGE measures through appropriate documentation and site visits, regardless of local permits, to ensure compliance with the EDGE standard" (EDGE User Guide, Section 6.3: Post-Construction Certification). Thus, the occupancy permit does not replace the need to audit all EDGE measures (Option A).

Reference:EDGE Certification Protocol, Section 3.4: Post-Construction Requirements, Section 3.2: Audit Requirements; EDGE Expert and Auditor Protocols, Section 4.4: Site Audit Procedures; EDGE User Guide Version 2.1, Section 6.3: Post-Construction Certification, Section 7.2: Materials Efficiency Measures.

NEW QUESTION # 35

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