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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q50-Q55):

NEW QUESTION # 50

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

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

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 # 51

An EDGE Auditor is auditing a hospital design for Preliminary Certification. The EDGE Client has included photovoltaics as one of the energy measures resulting in an overall 21% saving in energy. The Auditor observes the photovoltaics are facing the wrong direction. What action should the Auditor take?

- A. Reject photovoltaics from the selected set of energy measures and notify the Client regarding the orientation.
- B. Adjust the area of photovoltaic panels in the assessment to allow for reduction in energy output.
- C. Assess the energy measures as they are presented to you, without changing the photovoltaic selection.
- D. Contact the design team directly and suggest a better orientation for the photovoltaics.

Answer: C

Explanation:

The role of an EDGE Auditor is to verify the project's self-assessment as submitted, not to modify or redesign the project. The EDGE Expert and Auditor Protocols clearly define the Auditor's responsibilities: "During an audit, the EDGE Auditor must assess the energy measures as presented in the self-assessment, without altering the design or selections made by the Client. If discrepancies are found, such as incorrect orientation of photovoltaics, the Auditor should note the issue in the audit report but proceed with the assessment as submitted, allowing the Certification Provider to make the final decision" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). Option C, assess the energy measures as they are presented without changing the photovoltaic selection, aligns with this protocol. Option A (contact the design team and suggest a better orientation) oversteps the Auditor's role, as they are not to provide design advice: "Auditors must not engage in design consultancy during an audit to avoid conflicts of interest" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option B (adjust the area of photovoltaic panels) involves modifying the assessment, which is prohibited: "Auditors cannot modify the Client's self-assessment; they must evaluate it as submitted" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option D (reject photovoltaics and notify the Client) is also incorrect, as Auditors do not have the authority to reject measures outright: "Rejection of measures is the responsibility of the Certification Provider, not the Auditor" (EDGE Certification Protocol, Section 3.3: Certification Decision). Thus, the Auditor should assess as presented (Option C).

Reference:EDGE Expert and Auditor Protocols, Section 4.1: Audit Process, Section 2.3: Conflict of Interest; EDGE Certification Protocol, Section 3.2: Audit Requirements, Section 3.3: Certification Decision.

NEW QUESTION # 52

Variable speed drives in HVAC systems help:

- A. Increase the speed.
- B. Reduce the speed.
- C. Reduce water consumption.
- D. Reduce energy consumption.

Answer: D

Explanation:

Variable speed drives (VSDs) are a recognized energy efficiency measure in EDGE for optimizing HVAC system performance. The EDGE User Guide explains their role: "Variable speed drives in HVAC systems, such as those used in fans and pumps, adjust the motor speed to match the load demand, significantly reducing energy consumption compared to fixed-speed systems. This measure can achieve up to 30% energy savings in HVAC operations" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option C, reduce energy consumption, directly aligns with this description. Option A (reduce the speed) and Option B (increase the speed) are partially correct in that VSDs adjust speed, but the primary benefit in EDGE is energy savings, not speed adjustment itself: "The goal of VSDs in EDGE is energy reduction through speed modulation, not speed adjustment as an end" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option D (reduce water consumption) is incorrect, as VSDs impact energy use, not water: "VSDs are an energy measure and do not directly affect water consumption in HVAC systems" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Thus, VSDs help reduce energy consumption (Option C). 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.

NEW QUESTION # 53

Air-cooled chillers have the following components:

- A. Compressor, water-cooled condenser, thermal expansion valve, evaporator.
- B. Chilled water pump, condenser, thermal expansion valve, evaporator.
- **C. Compressor, condenser, thermal expansion valve, evaporator.**
- D. Cooling tower, condenser, condenser pump, evaporator.

Answer: C

Explanation:

Air-cooled chillers are a type of HVAC system commonly evaluated in EDGE for their energy efficiency in green building design. The EDGE Methodology Report Version 2.0 outlines the components of air-cooled chillers in the context of energy efficiency measures. According to the EDGE User Guide (Version 2.1), air-cooled chillers differ from water-cooled chillers by not requiring a cooling tower or associated water-based components like a condenser pump. The guide states: "Air-cooled chillers consist of a compressor, air-cooled condenser, thermal expansion valve, and evaporator, which work together to provide cooling by rejecting heat directly to the ambient air" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option A includes a cooling tower and condenser pump, which are specific to water-cooled chillers. Option D mentions a water-cooled condenser, which is incorrect for air-cooled systems. Option C includes a chilled water pump, which is not a core component of the chiller itself but part of the broader system. Option B accurately lists the compressor, condenser (air-cooled, implied), thermal expansion valve, and evaporator, aligning with the EDGE description of air-cooled chiller components.

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

NEW QUESTION # 54

An EDGE Auditor has been requested to provide auditing services to a development client. This particular client is well known as a hard negotiator and has offered the appointment on the basis of 50% payment for assessment and 50% upon successful EDGE certification of the building. What should the EDGE Auditor do?

- A. Refer the developer to another Auditor in the area who needs the work.
- B. Accept these terms, knowing that the project will most likely achieve certification.
- C. Lodge a complaint against the developer with the local authorities.
- **D. Confirm a fixed fee independent of the final assessment result.**

Answer: D

Explanation:

EDGE Auditors must adhere to strict ethical guidelines to maintain independence and avoid conflicts of interest, particularly regarding payment structures that could influence their impartiality. The EDGE Expert and Auditor Protocols address payment terms explicitly: "An EDGE Auditor must confirm a fixed fee for their services that is independent of the final assessment result. Payment structures that tie fees to the success of certification, such as contingent payments, are prohibited to ensure the Auditor's objectivity and to prevent any perception of bias in the audit process" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). The client's offer of 50% payment for assessment and 50% upon successful certification violates this principle, as it makes part of the fee contingent on the outcome. Option A, confirm a fixed fee independent of the final assessment result, aligns with this ethical requirement, ensuring the Auditor's impartiality. Option B (lodge a complaint with local authorities) is incorrect, as this is an overreaction and outside the Auditor's role: "Issues related to payment terms should be resolved directly with the Client, not

escalated to local authorities, which are unrelated to EDGE certification" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). Option C (refer the developer to another Auditor) avoids the issue but does not address the ethical concern: "Referring the Client to another Auditor does not resolve the ethical violation of contingent fees, which applies to all Auditors" (EDGE Expert and Auditor Protocols, Section 2.3:

Conflict of Interest). Option D (accept the terms) is unethical, as it compromises the Auditor's independence:

"Accepting payment terms tied to certification success, even if the project is likely to succeed, violates EDGE protocols and undermines the integrity of the certification process" (EDGE Certification Protocol, Section 3.1:

Certification Process). The EDGE User Guide further emphasizes: "Auditors must maintain strict independence, ensuring their compensation is not influenced by the certification outcome, to uphold the credibility of EDGE certification" (EDGE User Guide, Section 6.5: Working with EDGE Auditors). Thus, the Auditor should confirm a fixed fee (Option A).

Reference:EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest, Section 4.1: Audit Process; EDGE Certification Protocol, Section 3.1: Certification Process; EDGE User Guide Version 2.1, Section 6.5:

Working with EDGE Auditors.

NEW QUESTION # 55

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