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AEE Certified Energy Manager (CEM) Sample Questions (Q127-Q132):

NEW QUESTION # 127
A facility replaces a natural gas heating system rated at 10,000 kJ/h and 80% efficiency with an electric heat pump rated at 10,000 kJ/h and a coefficient of performance (COP) of 2.3. Will this project also reduce the annual energy utilization index (EUI) for the facility?

- A. No
- B. Yes

Answer: B

Explanation:
The Energy Utilization Index (EUI) is measured as total energy consumption per unit area.
Step 1: Compare Energy Inputs for Both Systems
* Existing Natural Gas System:
* Heating output: 10,000 kJ/h
* Efficiency: 80%

* Required input energy

$$\frac{10,000}{0.80} = 12,500 \text{ kJ/h}$$

- **Electric Heat Pump:**
  - Heating output: **10,000 kJ/h**
  - COP: **2.3**
  - Required input energy:

$$\frac{10,000}{2.3} = 4,347.8 \text{ kJ/h}$$

Step 2: Determine Energy Savings

- The heat pump requires **4,347.8 kJ/h**, which is significantly lower than the **12,500 kJ/h** required by the gas system.
- Since **less total energy is consumed**, the **EUI will decrease.**

Thus, the correct answer is **A. Yes.**

NEW QUESTION # 128
A facility has the thermal cooling load profile shown in the table below. The utility rate traffic has an no-peak time-of-use period that begins at 10:00 a.m ends at 7:00 p.m. What chiller capacity (output) is required for a load-leveling operating strategy?

Time of Day	Facility Design Cooling Load	Time of Day	Facility Design Cooling Load
Midnight to 1:00 a.m.	2 GJ	Noon to 1:00 p.m.	8 GJ
1:00 a.m. to 2:00 a.m.	2 GJ	1:00 p.m. to 2:00 p.m.	9 GJ
2:00 a.m. to 3:00 a.m.	2 GJ	2:00 p.m. to 3:00 p.m.	9 GJ
3:00 a.m. to 4:00 a.m.	2 GJ	3:00 p.m. to 4:00 p.m.	9 GJ
4:00 a.m. to 5:00 a.m.	2 GJ	4:00 p.m. to 5:00 p.m.	9 GJ
5:00 a.m. to 6:00 a.m.	2 GJ	5:00 p.m. to 6:00 p.m.	8 GJ
6:00 a.m. to 7:00 a.m.	4 GJ	6:00 p.m. to 7:00 p.m.	6 GJ
7:00 a.m. to 8:00 a.m.	4 GJ	7:00 p.m. to 8:00 p.m.	6 GJ
8:00 a.m. to 9:00 a.m.	4 GJ	8:00 p.m. to 9:00 p.m.	4 GJ
9:00 a.m. to 10:00 a.m.	6 GJ	9:00 p.m. to 10:00 p.m.	4 GJ
10:00 a.m. to 11:00 a.m.	6 GJ	10:00 p.m. to 11:00 p.m.	2 GJ
11:00 a.m. to Noon	8 GJ	11:00 p.m. to Midnight	2 GJ

[Question from the previous image, which was about chiller capacity for load leveling, but the table was missing]

- A. 4.0 GJ/h
- B. 8.0 GJ/h
- C. 7.0 GJ/h
- D. 5.0 GJ/h

Answer: D

Explanation:
Comprehensive Detailed Step by Step Explanation with all AEE Energy Manager (CEM) References
* Interpret the load profile (hourly cooling energy):The table gives the facility cooling load in GJ per hour interval (so numerically it's an hourly rate for each hour).
* Compute the total daily cooling energy (sum of 24 hourly loads):
* 12:00 a.m.-6:00 a.m.: 6 hr × 2 = 12 GJ
* 6:00-7:00 a.m.: 4 # 16 GJ
* 7:00-8:00 a.m.: 4 # 20 GJ
* 8:00-9:00 a.m.: 4 # 24 GJ
* 9:00-10:00 a.m.: 6 # 30 GJ
* 10:00-11:00 a.m.: 6 # 36 GJ
* 11:00 a.m.-12:00 p.m.: 8 # 44 GJ
* 12:00-1:00 p.m.: 8 # 52 GJ
* 1:00-2:00 p.m.: 9 # 61 GJ
* 2:00-3:00 p.m.: 9 # 70 GJ

* 3:00-4:00 p.m.: 9 # 79 GJ
* 4:00-5:00 p.m.: 9 # 88 GJ
* 5:00-6:00 p.m.: 8 # 96 GJ
* 6:00-7:00 p.m.: 6 # 102 GJ
* 7:00-8:00 p.m.: 6 # 108 GJ
* 8:00-9:00 p.m.: 4 # 112 GJ
* 9:00-10:00 p.m.: 4 # 116 GJ
* 10:00-11:00 p.m.: 2 # 118 GJ
* 11:00 p.m.-12:00 a.m.: 2 # 120 GJ total per day

So, Total daily cooling energy = 120 GJ.

* Apply the CEM "load-leveling" operating strategy sizing rule:In the AEE CEM Thermal Storage training material, Load Leveling is described as operating the chiller at a constant (or near constant) load for 24 hours per day, and the "load leveling chiller load calculations" are based on Total energy

/ Hours available to operate chillers-for load leveling, that operating window is 24 hours. portal.

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Therefore:

* Why the "no-peak 10 a.m.-7 p.m." detail doesn't change the load-leveling answer:That time window is typically used when a strategy restricts chiller operation to certain hours (e.g., full load shifting). But load leveling, per the CEM training description, is the strategy where the chiller runs all day at (near) constant load, using storage to absorb the difference between constant production and variable building load

NEW QUESTION # 129

Which of the following statements regarding refrigerants is NOT correct?

5ELECT THE CORRECT ANSWER

- A. R-11 and R-12 are Chloro Fluoro Carbons with significant ozone depleting potential
- B. R-32 and R-134a are Hydro Fluoro Carbons with zero ozone depleting potential, and significant global warming impact
- C. R-22 is a Hydro Chloro Carbon with significant ozone depleting potential and significant global warming impact
- D. R-407C is a blended Hydro Fluoro Carbon or near Azeotropic mixture, and can be used as a replacement for R-22 in commercial applications
- E. R-1234yf is a Hydro Fluoro Olefin with zero ozone depleting potential, and little global warming potential

Answer: C

Explanation:

Understanding the environmental impacts of various refrigerants is crucial for energy managers. Let's analyze each statement:en.wikipedia.org A). R-407C is a blended Hydro Fluoro Carbon or near Azeotropic mixture, and can be used as a replacement for R-22 in commercial applications:

This statement is correct. R-407C is a blend of HFCs designed to replace R-22 in air conditioning systems.

B). R-11 and R-12 are Chloro Fluoro Carbons with significant ozone depleting potential:

This is correct. R-11 and R-12 are CFCs known for their high ozone depletion potential.

C). R-1234yf is a Hydro Fluoro Olefin with zero ozone depleting potential, and little global warming potential:

Correct. R-1234yf is an HFO with negligible ozone depletion and low global warming potential.

D). R-22 is a Hydro Chloro Carbon with significant ozone depleting potential and significant global warming impact:

This statement is incorrect. R-22 is a Hydrochlorofluorocarbon (HCFC), not a Hydro Chloro Carbon. While it does have ozone-depleting potential, its global warming potential is considered moderate, not significant.

E). R-32 and R-134a are Hydro Fluoro Carbons with zero ozone depleting potential, and significant global warming impact:

This is correct. Both R-32 and R-134a are HFCs with no ozone depletion potential but have considerable global warming potential.

Conclusion:

The incorrect statement is D. R-22 is a Hydro Chloro Carbon with significant ozone depleting potential and significant global warming impact. Therefore, the correct answer is D.

NEW QUESTION # 130

Which of the following is/are benefits of commissioning?

- A. Ensures a system is designed to operate as intended
- B. Ensures staff know how to maintain a system as intended
- C. Ensures staff know how to operate a system as intended

- D. Ensures a system is installed to operate as intended
- E. All of the above

Answer: E

Explanation:
1) Definition of Commissioning (CEM Standard)
According to the AEE Certified Energy Manager (CEM) Body of Knowledge and the ASHRAE/AEE commissioning guidance referenced in CEM training, commissioning (Cx) is a systematic quality assurance process applied throughout the design, installation, startup, and operation phases of a facility to ensure that building systems perform as intended by the owner and designer.
2) Evaluation of Each Option
* A. Ensures a system is designed to operate as intended
* Commissioning includes design review to verify that the design intent, owner's project requirements (OPR), and basis of design (BOD) are aligned.
* CEM materials explicitly include design-phase commissioning as a benefit.
* B. Ensures a system is installed to operate as intended
* Construction and installation verification is a core commissioning activity.
* Functional performance testing confirms systems are installed and perform per design.
* C. Ensures staff know how to operate a system as intended
* Commissioning requires operator training, review of control sequences, and system demonstrations.
* AEE CEM guidance highlights improved operations staff competence as a major benefit.
* D. Ensures staff know how to maintain a system as intended
* Commissioning includes delivery and review of O&M manuals, maintenance procedures, and hands-on training.
* This reduces long-term energy waste and equipment degradation.
3) CEM Exam Key Concept
Commissioning improves energy performance, system reliability, occupant comfort, and staff capability by verifying design intent, installation quality, and operational readiness.

NEW QUESTION # 131
Lighting systems operate with a certain recoverable light loss factor. Control systems with photocell sensor inputs combined with dimming ballasts can be used to regulate dimming levels to maintain a continuous light level in the work space. Which of the following best describes this type of control?

- A. Two-position controller
- B. Demand-limiting controller
- C. Closed-loop controller
- D. Open-loop controller

Answer: C

NEW QUESTION # 132
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