

Easy

Assistant Engineer (Electrical), Class 2025

Building Department

A new renewable energy system is designed to harvest energy from wind. The total energy required to build the system is 240 kJ. The energy yield ratio of the system is

A

1,120 kJ

Correct

B

18,000 kJ

C

2,258 kJ

D

54,000 kJ

Correct Answer: A

Full Detailed Explanation

Concept & Reasoning: Energy yield ratio compares useful lifetime energy output with embodied/build energy. Treat the ratio as a direct proportion. The result should be greater than the construction energy because the numerator 14 exceeds denominator 3. How to Solve It in the Exam: Ratio output:input multiply build energy by 14/3. Important Exam Point: Do a magnitude check: yield must exceed 240 kJ. Related Revision Path: This question sits in the revision path Power Plant Engineering Renewable Energy Energy Payback .

Open live question on website:

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