

Easy

Assistant Engineer (Electrical), Class 2025

Building Department

What is the main purpose of a Diesel Generator (DG) set in a commercial building?

A

To reduce the daily electricity bill

B

To provide primary power to the entire building

C

To act as a backup power source during a grid outage

Correct

D

To power only the HVAC system

Correct Answer: C

Full Detailed Explanation

Concept & Reasoning DG sets are sized according to essential/standby load demand, motor starting, transient voltage/frequency performance and code requirements. They are not normally operated solely to reduce daily energy bills unless a specific economic/peak-shaving strategy exists. How to Solve It in the Exam DG in buildings = standby power. Important Exam Point Differentiate standby generation from UPS: UPS supplies near-instant ride-through; DG provides longer-duration backup after start-up. Related Revision Path This question sits in the revision path Building Electrical Services Standby Power Diesel Generators .

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