

Energy Storage Retrofit Plan for Middle East Office Buildings

International Performance Measurement and Verification Protocol is used for retrofit assessment. A rooftop PV system and five energy efficiency measures are investigated. Buildings ...

Countries such as Saudi Arabia, the UAE, Qatar, and Kuwait prioritize retrofitting initiatives as part of broader decarbonization targets, aiming to modernize existing infrastructure, curb energy wastage, ...

Only once buildings are performing efficiently, should organisations invest in capital-intensive upgrades like high-efficiency chillers or envelope improvements, expert says ...

This paper presents a real case study of the retrofitting of an existing building to achieve lower energy consumption.

Governments in the Middle East have taken various steps to address these challenges by introducing mandatory energy-efficient building codes, offering financial incentives, and encouraging the ...

These programs include: building retrofits, demand response, efficient water use/re-use, building regulations, street lighting, district cooling, standards and labels, energy storage, and rebates and ...

This study investigates the retrofit of an existing office building in Canada from the late 1960s to reduce the annual operational energy, to determine the on-site energy production

The objective of this research is to determine the quantitative influence of the building envelope retrofit strategies on the annual energy demand in office buildings demonstrated in a ...

In this piece, we explore: Where the Middle East stands in its clean energy transition, how energy storage supports renewable integration and economic diversification, and how policies and ...

This review aims to systematically analyze energy-saving strategies (i.e., HVAC optimization, building envelope enhancements, renewable energy integration, and smart building ...

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