

Average office building energy storage price per 100MW in Saudi Arabia

How much energy can be saved in office buildings?

According to Al-Hamoud and Mohammad (1997), annual energy savings of 15%, 19% and 40% can be obtained for large, medium and small office buildings, respectively, through envelope thermal optimization in the Riyadh area. Similarly, for Jeddah, annual energy savings of 8%, 12% and 24% can be achieved for large, medium, and small offices, respectively.

How much energy is saved in Riyadh and Jeddah?

In the optimization of a small, two-story residential building, annual energy savings of 37% were found in Riyadh (a hot-arid climate) and 28% in Jeddah (a hot-humid climate).

How much energy does an office air-conditioning system use?

An office building's air-conditioning system consumes 74% of its total electric load during the summer peak period (Hasanain et al., 2000). Within the air-conditioning system, 74% of the electrical energy is consumed by chillers, 21% by AHUs, and 5% by pumps.



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