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What energy storage devices are there in Egyptian office buildings

Overview

Energy consumption of the buildings sector has increased dramatically over the past decade. In Egypt, existing buildings consume 60% of electrical energy. Improving existing buildings through energy retro.

Can smart technology save energy in Egypt?

Using EDGE software, energy assessment of an existing office building in Egypt was performed. This assessment acts as a “reference point” to quantify the impact of each smart technology and retrofitting scenario on the energy savings, incremental costs, and payback period.

How much electricity does a commercial building use in Egypt?

The percentage of electricity consumption by the commercial buildings represents 12.3% of total electricity consumption in Egypt. The breakdown of the electrical consumption of these buildings is 36% for lighting and 35–40% for cooling, ventilating, and air-conditioning (HVAC) systems .

How has smart technology changed commercial buildings in Egypt?

In addition, advances in smart technology made it easier than ever to retrofit to existing buildings. In 2019, the percentage of commercial buildings including office buildings in Egypt was about 5.4% of the buildings stock, in addition to 6.75% combined use for commercial and residential.

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Which buildings have embraced smart technology?

Some of the world’s most iconic existing buildings have embraced smart technology with amazing results. The Empire State Building completed in

1931; it has been completely retrofitted with smart technology in the past decade and seen more than US $4.4 m of energy savings each year—and a 38% reduction in energy consumption .

Can smart technologies save energy in office buildings?

Results showed that smart technologies have a great role in retrofitting of office buildings reaching more than 20% energy savings. In addition, the high initial cost of applying smart technologies could be covered within around 3 years of operation.

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