

Are there suitable energy-saving retrofit technologies for existing hotels?

The suitable energy-saving retrofit technologies for existing hotels were proposed, offering choice of energy-saving retrofit for similar public buildings in hot summer and cold winter areas.

## 1. Introduction

The energy consumption of existing buildings is an important part of the total energy consumption of buildings.

Does energy-saving retrofitting of existing hotel buildings save energy?

In this study, the efficacy of energy-saving retrofitting of existing hotel buildings was examined. The hotel energy consumption characteristic was analyzed via an energy consumption survey, and energy saving benefits were evaluated via field tests and mathematical statistics analysis.

Can hotel buildings be retrofitted?

Therefore, this study used hot summer and cold winter areas (a city in the Jiangsu Province, China) as research objects to identify the retrofit technologies of existing hotel buildings that are suitable for promotion, and propose additional retrofitting suggestions to act as a basis for retrofitting similar public buildings.

Can hotel buildings be retrofitted in Jiangsu Province?

6. Conclusion This research analyzed the cases of retrofit of existing hotel buildings in Jiangsu Province, which is located in the hot summer and cold winter area, and proposed a post-evaluation method for retrofit of such buildings.

Are hotel buildings energy-saving?

The energy cost is increasing year by year. The main energy consumption system of hotel building is composed of air conditioning, living hot water supply, kitchen, lighting and power system, therefore, the research is aimed at the analysis of the common energy-saving transformation technology in the existing hotel buildings. Table 2.

How does a retrofit affect the energy consumption of a hotel?

Take Hotel 6 as an example to show the changes in the proportion of energy consumption of each subsystem of the hotel before and after the retrofit. After the retrofit, the total energy consumption has been reduced by 30.5%, of which the proportion of energy consumption of lighting system has dropped significantly.

The results showed that the energy consumption of hotels after energy-saving retrofit is reduced by more than 25% compared to the consumption before. Among them, ...

Mentioning: 4 - With the improvement of China's economic strength, the energy consumption of public buildings is continually increasing, notably for hotels. The energy consumption of a hotel ...

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Vietnam's industrial parks retrofit solar power to attract investors Source: Xinhua | 2024-09-03 17:11:15 | Editor: huaxia HANOI, Sept. 3 (Xinhua) -- Industrial parks in Vietnam have retrofitted rooftop solar power systems to increase competitiveness and attract investors, Vietnam News Agency reported Tuesday.

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Despite the importance of building green retrofit globally, the rate of green retrofitting of existing buildings is still low. As an example, the rate is only 0.4-1.2% per year in Europe (Pombo et al., 2019). There are various retrofitting barriers that hinder the promotion of green retrofitting existing buildings, such as the uncertainties with respect to energy saving, ...

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During the "Thirteenth Five-Year Plan" period, Jiangsu Province vigorously developed green buildings and further promoted energy-efficient buildings, and carried out the energysaving retrofit of ...

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