ROTANA HOTEL CASE STUDY

Rotana

INTELLI-HOOD

KEY SAVINGS

Overview

Rotana Hotel Abu Dhabi, an esteemed luxury hotel renowned for its world-class hospitality, faced a significant challenge related to high utility costs, specifically in their commercial kitchens. In pursuit of energy efficiency and cost savings, the hotel chose to address this challenge by installing Intelli- Hood's Demand Control Kitchen Ventilation (DCKV) system.

Total Energy Savings
160,356 AED/Year

Carbon Dioxide
1,002,228 lbs./Year

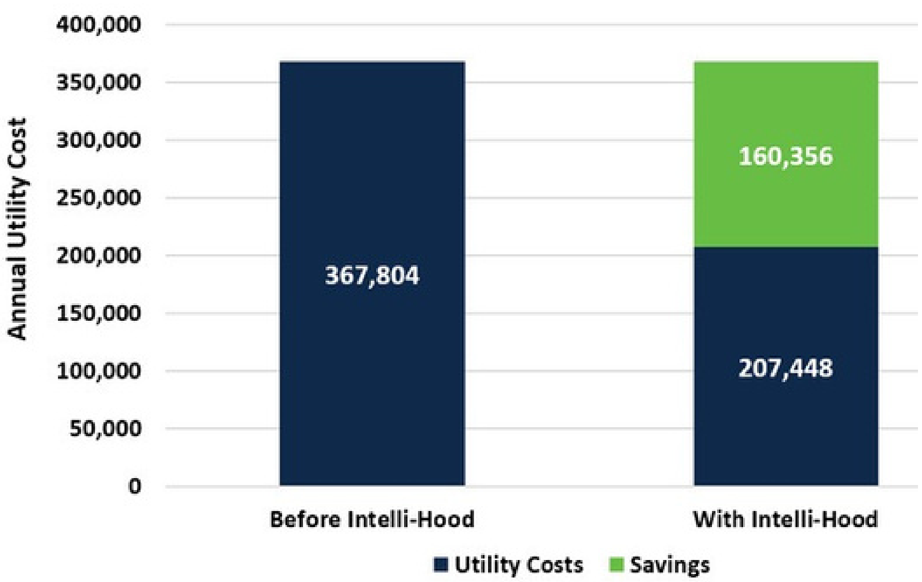
Operating Expense Reduction
44%

Reason For DCKV

Before the installation of Intelli-Hood's DCKV controls, Rotana Hotel Abu Dhabi struggled with a substantial utility cost burden. The annual utility expenses for the hotel's commercial kitchens amounted to a hefty 367,804 AED, creating a notable financial challenge for the establishment.

Annual Kitchen Hood Energy Costs (AED)

Figure A



To combat this challenge and embrace a more sustainable and cost-effective approach, Rotana Hotel Abu Dhabi opted to invest in Intelli-Hood's DCKV system. The system is well-regarded for its capacity to optimize kitchen ventilation, thereby reducing energy consumption and operational costs.

The Intelli-Hood DCKV system was seamlessly integrated into all of the hotel's commercial kitchens. Installation was executed with careful consideration for minimal disruption to the daily operations of the hotel.

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Results

The installation results of Intelli-Hood at Rotana Hotel Abu Dhabi yielded positive results:

Utility Savings: The hotel achieved an annual utility cost savings of 160,356 AED following the installation of Intelli-Hood. The post-installation utility costs decreased from 367,804 AED to 207,448 AED (Figure A), marking a substantial reduction in operational expenses.

Operational Expense Reduction: The installation of Intelli-Hood resulted in a remarkable 44% reduction in operational expenses, which positively impacted the hotel's profitability and financial sustainability.

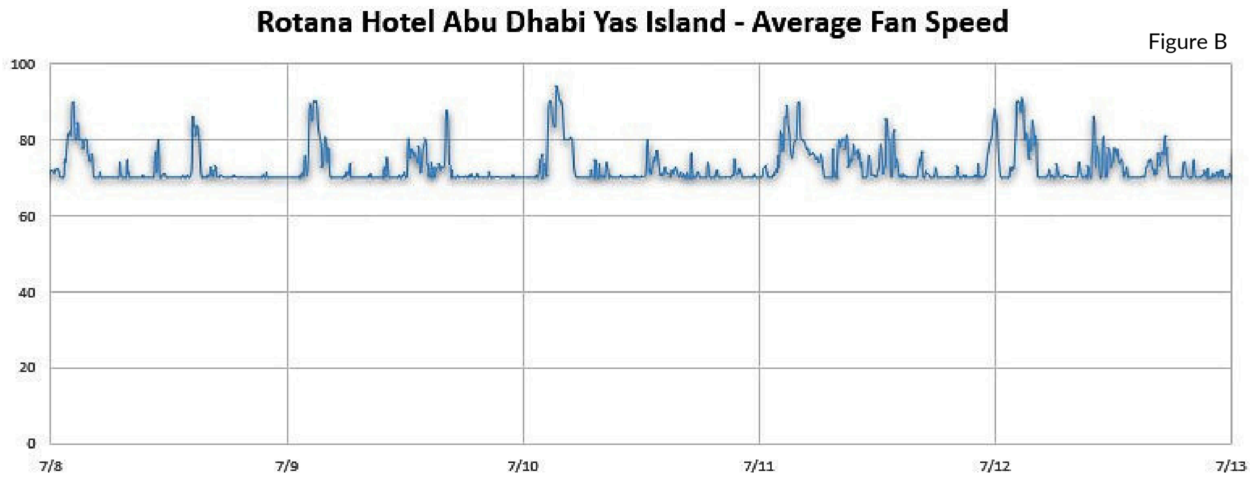
CO2 Savings: The energy efficiency achieved through Intelli-Hood led to significant CO2 savings, with a reduction of 1,002,228 lbs. of carbon dioxide emissions per year. This not only contributed to the hotel's sustainability goals but also to environmental responsibility.

Improved Efficiency: The average fan speed in the hotel's kitchens was optimized at 75% (Figure B), ensuring that ventilation was closely aligned with cooking activities. This contributed to a more energy-efficient and environmentally responsible operation.

Conclusion

The implementation of Intelli-Hood's DCKV system at Rotana Hotel Abu Dhabi has demonstrated its success by delivering significant savings in utility costs, lowering operational expenses, and making notable reductions in CO2 emissions.

A Rotana Hotel Kitchen



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