RADISSON BLU HOTEL CASE STUDY

Radisson BLU

Melink

KLIMA GLOBAL GENERAL TRADING L L C

INTELLI-HOOD KEY SAVINGS

Total Energy Savings
143,747 AED/Year

Carbon Dioxide
898,420 lbs./Year

Operating Expense Reduction
55%

Overview

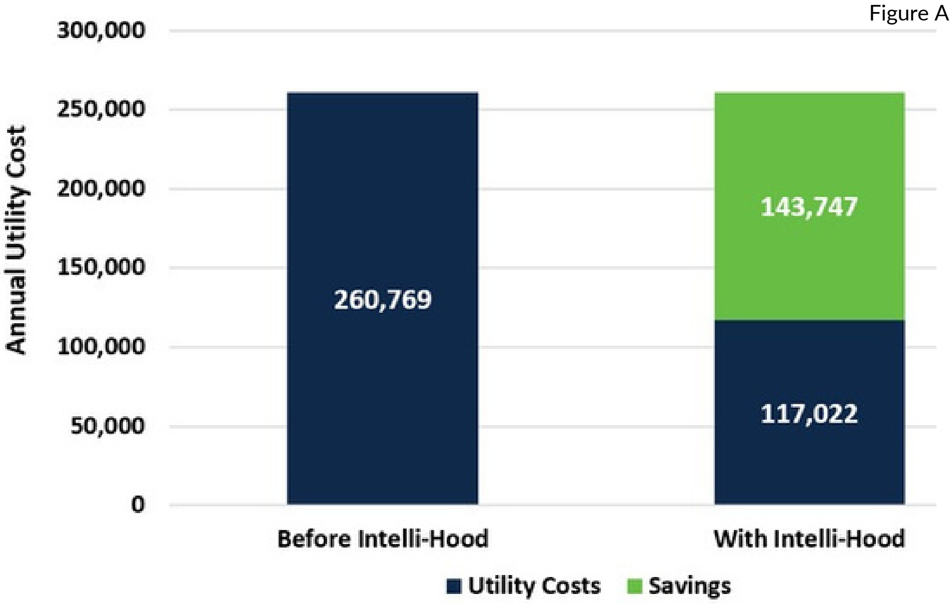
Radisson Blu, a luxury hotel located on Yas Island in Abu Dhabi, faced a challenge with escalating utility costs in its commercial kitchens. To address this issue, the hotel chose to install Intelli-Hood's Demand Control Kitchen Ventilation (DCKV) system. This solution aimed to optimize kitchen ventilation, reduce energy consumption, and improve operational efficiency.

Reason For DCKV

Prior to incorporating Intelli-Hood's DCKV controls, Radisson Blu confronted significant utility expenses linked to its commercial kitchen operations. The annual utility expenditure for the kitchens amounted to a considerable 260,769 AED, posing a financial hurdle for the hotel.

Annual Kitchen Hood Energy Costs (AED)

Figure A



In order to reduce utility costs and enhance operational efficiency, Radisson Blu - Abu Dhabi opted to invest in Intelli-Hood's DCKV system. This system is the global industry leader for optimizing kitchen ventilation based on actual cooking activities, helping reduce energy consumption and operational costs.

Intelli-Hood's DCKV system was successfully integrated into all of the hotel's commercial kitchens. The installation process was seamlessly carried out with minimal disruption to the hotel's daily operations.

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Results

The results of installing Intelli-Hood® at Radisson Blu - Abu Dhabi were outstanding:

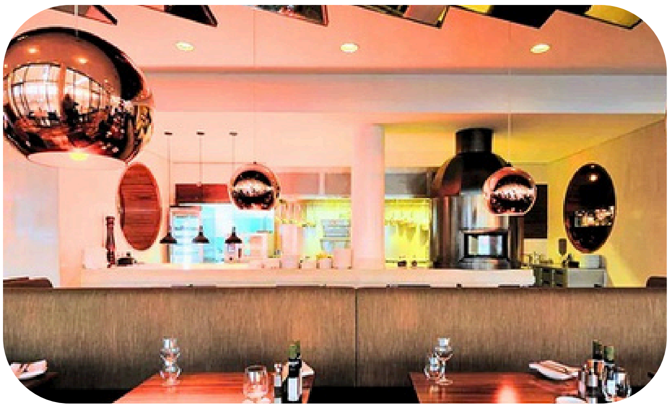
Utility Savings: Following the installation of Intelli-Hood®, the hotel achieved an annual utility cost savings of 143,747 AED. The post-installation utility costs then decreased from 260,769 AED to 117,022 AED (Figure A), marking a significant reduction in operational expenses.

Operational Expense Reduction: The installation of Intelli-Hood resulted in a remarkable 55% reduction in operational expenses, contributing to the hotel's financial sustainability and profitability.
CO2 Savings: The improved energy efficiency led to a reduction of 898,420 lbs. of carbon dioxide emissions per year. This helped reduce the hotel's overall carbon footprint.

Improved Efficiency: The average fan speed in the hotel's commercial kitchens was optimized at 63%, ensuring that ventilation was closely aligned with cooking activities. Variations in fan speed for cooking demand can be seen in Figure B below. This contributed to a more energy-efficient and cost-effective operation.

Conclusion

The implementation of Intelli-Hood® at the Radisson Blu - Abu Dhabi not only reduced the hotel's utility cost, but also reduced operational expenses, and overall CO2 emissions as well. The installation of this DCKV system proved to be a beneficial investment, optimizing the kitchen's performance and making it more energy efficient.



Radisson Blu Abu Dhabi Kitchen & Dinning Area