STAYBRIDGE SUITES CASE STUDY

INTELLI-HOOD KEY SAVINGS

Overview

Staybridge Suites Abu Dhabi, a renowned extended-stay hotel offering a homely atmosphere for its guests, faced a challenge regarding high utility costs, specifically in its commercial kitchens. In an effort to improve energy efficiency, reduce operational expenses, and enhance sustainability, the hotel decided to install Intelli-Hood's Demand Control Kitchen Ventilation (DCKV) system.

Total Energy Savings
7,762 AED/Year

Carbon Dioxide
48,514 lbs./Year

Operating Expense Reduction
63%

Reason For DCKV

Before the installation of Intelli-Hood's DCKV controls, Staybridge Suites Abu Dhabi was burdened with significant utility expenses. The annual utility costs for the hotel's commercial kitchens amounted to 12,395 AED, creating a noticeable financial challenge for the establishment.

To address this challenge and make their commercial kitchen more efficient, Staybridge Suites Abu Dhabi decided to invest in Intelli-Hood's DCKV system. This system is renowned for its ability to optimize kitchen ventilation, reducing energy consumption and associated operational costs.

The installation of Intelli-Hood's DCKV system was seamlessly integrated into all of the hotel's commercial kitchens. The installation process was designed to minimize disruption to the hotel's daily operations, ensuring the continuation of its high-quality service.

Annual Kitchen Hood Energy Costs (AED)

Figure A

+971 52 277 4852 info@klimaglobal.com www.klimaglobal.com

Results

The results of the Intelli-Hood installation at Staybridge Suites Abu Dhabi were highly favorable:

Utility Savings: The hotel achieved an annual utility cost savings of 7,762 AED following the installation of Intelli-Hood. The post-installation utility costs decreased from 12,395 AED to 4,633 AED (Figure A), marking a significant reduction in operational expenses.

Operational Expense Reduction: The installation of Intelli-Hood resulted in an outstanding 63% reduction in operational expenses. This achievement not only contributed to the hotel's profitability but also to its financial sustainability.

CO2 Savings: The improved energy efficiency led to a reduction of 48,514 lbs. of carbon dioxide emissions per year, supporting the hotel's sustainability goals and its commitment to environmental responsibility.

Improved Efficiency: The average fan speed in the hotel's kitchens was optimized at 46%, ensuring ventilation was closely aligned with cooking activities (Figure B). This contributed to a more energy-efficient and cost-effective operation.

Conclusion

The implementation of Intelli-Hood's DCKV system at Staybridge Suites Abu Dhabi has proven highly successful. It yielded substantial savings in utility costs, an impressive return on investment, a significant decrease in operational expenses, and noteworthy reductions in carbon emissions.

Staybridge Suites Abu Dhabi Breakfast Area

Figure B