ANANTARA MANGROVES HOTEL CASE STUDY

KEY SAVINGS

Total Energy Savings
129,729 AED/Year

Carbon Dioxide
810,809 lbs./Year

Operating Expense Reduction
56%

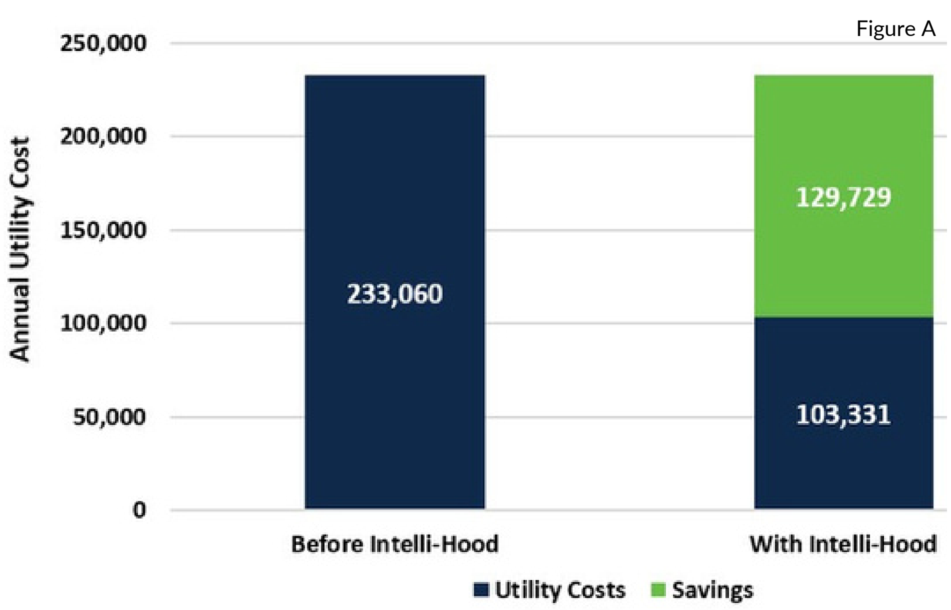
Overview

Anantara Mangroves Hotel is a luxurious five-star resort located in Abu Dhabi and is known for its commitment to sustainability and delivering exceptional guest experiences. The hotel faced a challenge regarding escalating utility costs, particularly in its commercial kitchens. To address this concern and enhance operational efficiency, the hotel opted to install Intelli-Hood's Demand Control Kitchen Ventilation (DCKV) system.

Reason For DCKV

Before the installation of Intelli-Hood's DCKV controls, Anantara Mangroves Hotel was grappling with substantial utility costs. The annual utility expenditure for the hotel's commercial kitchens amounted to 233,060 AED (Figure A), reflecting a significant operational overhead.

Annual Kitchen Hood Energy Costs (AED)



To address this issue, Anantara Mangroves Hotel decided to invest in Intelli-Hood's DCKV system,
renowned for its energy-efficient and adaptive kitchen ventilation controls. This innovative solution was expected to help the hotel optimize its kitchen exhaust ventilation based on actual cooking activities, reducing energy consumption and costs.

Performace

The Intelli-Hood DCKV system was installed in all the hotel's commercial kitchens, seamlessly integrated into the existing infrastructure. The installation process was carefully executed to minimize disruption to the hotel's daily operations.

Utility Savings: The hotel achieved an annual utility savings of 129,729 AED following the installation of Intelli-Hood. The post-installation utility costs decreased from 233,060 AED to 103,331 AED (Figure A), marking a substantial reduction in operational expenses (56%).

Improved Efficiency: The average fan speed in the hotel's kitchens was optimized to 65% (Figure B), ensuring that ventilation was precisely aligned with the cooking activities. This contributed to a more energy-efficient and environmentally responsible operation.

Sustainability: By reducing energy consumption, the Intelli-Hood installation aligned with the hotel's commitment to sustainability. Anantara Mangroves Hotel improved their environmental sustainability by reducing their carbon footprint by 810,809lbs. per year.

Guest Experience: The quieter and more efficient operation of the kitchen ventilation also positively impacted the guest experience by reducing noise levels and enhancing the ambiance of the hotel's dining areas.

Conclusion

The installation of Intelli-Hood's DCKV system at Anantara Mangroves Hotel, Abu Dhabi, proved to be a beneficial investment. The system delivered substantial energy savings, reduced operational costs by 56%, and significantly cut CO_2 emissions—supporting the hotel's sustainability goals and enhancing overall kitchen efficiency.

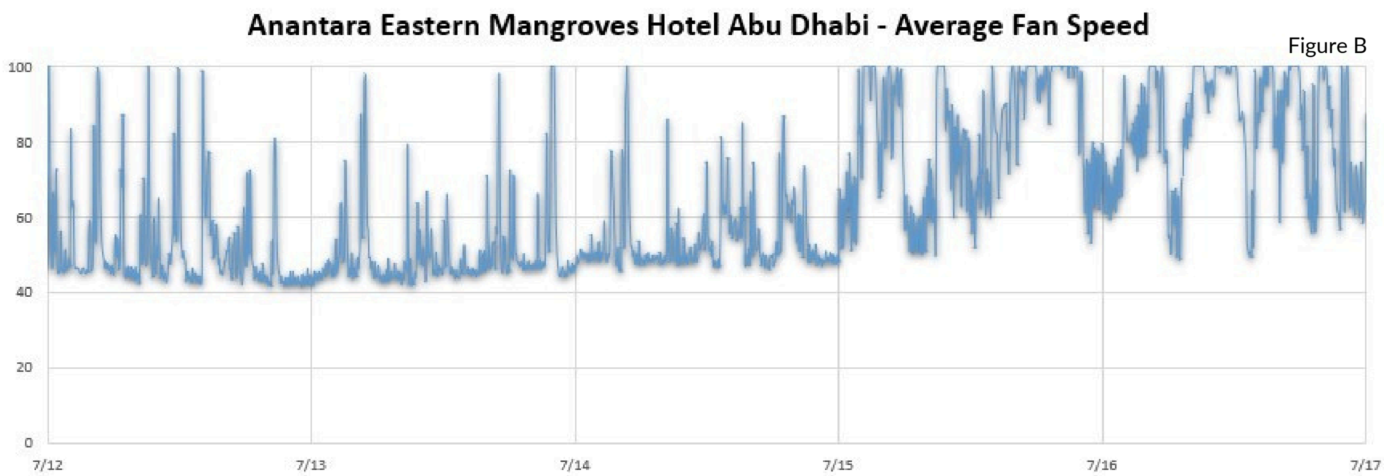


Figure B