



INTELLI-HOOD®

KEY SAVINGS



Total Energy Savings
54,928 AED/Year



Carbon Dioxide
67,338 kg/Year



Simple Payback Period
1.5 Years



Operating Expense Reduction
19%

Overview

Social House, a bustling restaurant located in Dubai Mall, faced escalating utility costs due to inefficient kitchen ventilation systems. The restaurant, known for its vibrant atmosphere and diverse menu, sought a solution to curb expenses without compromising its operational excellence.

High utility expenses resulting from inefficient kitchen ventilation systems led to substantial operational costs for Social House. The need for a solution that would optimize energy usage without disrupting the restaurant's daily operations was critical.

Social House opted for Intelli-Hood®, the global industry leader in Demand-Controlled Kitchen Ventilation (DCKV) systems for commercial kitchens. Intelli-Hood's controls utilize temperature and optic sensors to modulate kitchen fan speeds based on cooking demands and detect the

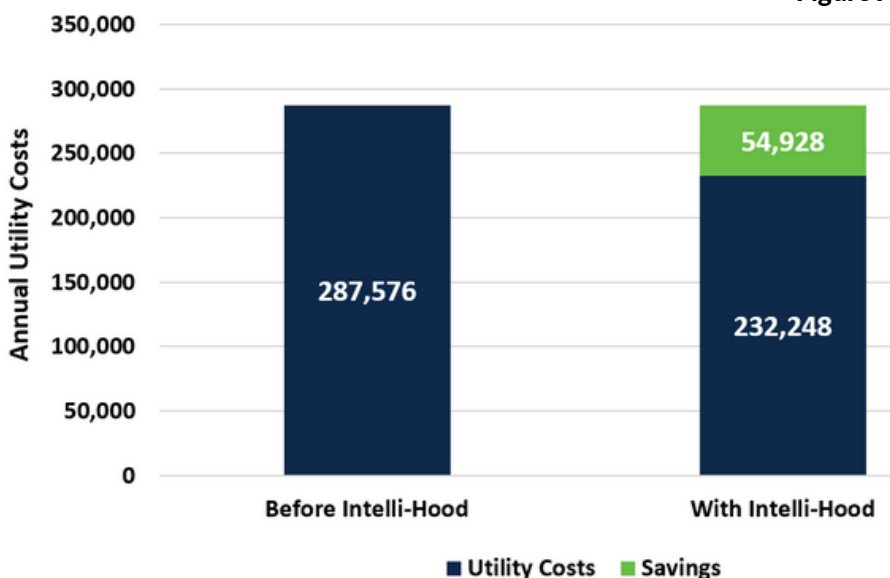
difference between steam from cooking and smoke. These fan adjustments help reduce energy waste and enhance efficiency.

Implementation

The integration of Intelli-Hood's DCKV system into the Deli Bakery kitchen at Emirates Palace was executed with seamless precision. The process was streamlined as to not affect daily operation and was completed during non-peak cooking hours. By minimizing the installation disruption, this ensures the kitchen could continue to operate and customers would not be inconvenienced, helping establish a seamless transition.

Annual Kitchen Hood Utility Costs (AED)

Figure A



Performance Results

This transformative installation not only elevated the efficiency of the restaurant's overall functioning but also positively impacted key areas of its operations, leading to a notable improvement in performance and resource utilization.

Utility Cost Savings: The restaurant's utility expenses decreased significantly from 287,576 AED pre-Intelli-Hood installation to 232,248 AED post-implementation. This substantial cost saving of 54,928 AED demonstrated the cost-effectiveness of the solution (Figure A).

Operating Savings: Following the Intelli-Hood installation, Social House experienced a notable 19% reduction in operating costs, signifying the substantial efficiency gains achieved through enhanced control mechanisms.

Average Fan Speed: The average fan speed of 88% indicated a consistently high demand for cooking activities (Figure B). This highlighted the system's ability to adapt and maintain optimal ventilation levels, ensuring a conducive kitchen environment during busy periods.

CO2 Annual Savings: The implementation of Intelli-Hood resulted in an annual reduction in carbon dioxide emissions of 67,338 kg, underscoring the sustainability benefits achieved by the system.

Conclusion

The smooth installation process of Intelli-Hood, coupled with the effective optimization of Social House's kitchen ventilation system, resulted in considerable cost savings and a marked reduction in the restaurant's carbon footprint. This successful implementation highlights Intelli-Hood's standing as a premier global provider of DCKV controls for commercial kitchens, providing concrete financial advantages and promoting environmental sustainability for its clientele.



Social House Dubai

Social House Dubai Mall UAE- Average Fan Speed

Figure B

