



INTELLI-HOOD®

KEY SAVINGS

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



Total Energy Savings
\$14,951/Year



Carbon Dioxide
148,455 lbs/Year



Simple Payback Period
1.5 Years



Operating Expense Reduction
19%

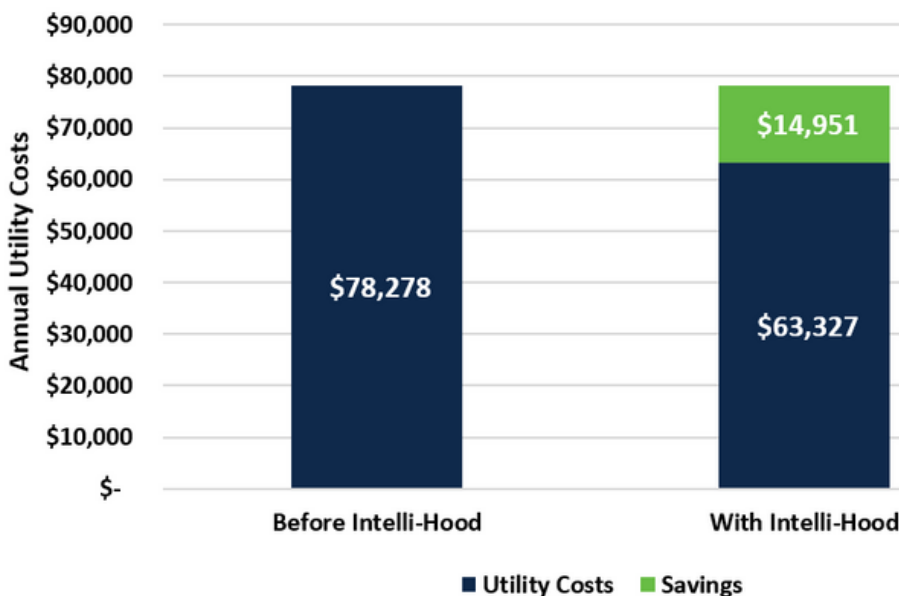
difference between steam from cooking and smoke. These fan adjustments help reduce energy waste and enhance efficiency.

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 (USD)

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 \$78,278 pre-Intelli-Hood installation to \$63,327 post-implementation. This substantial cost saving of \$14,951 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 148,455 lbs, 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

