



IBEROSTAR
HOTELS & RESORTS



INTELLI-HOOD®

KEY SAVINGS



Total Energy Savings

\$26,671/Year



Carbon Dioxide

116,507 lbs/Year



Simple Payback Period

2.6 Years



Operating Expense Reduction

53%

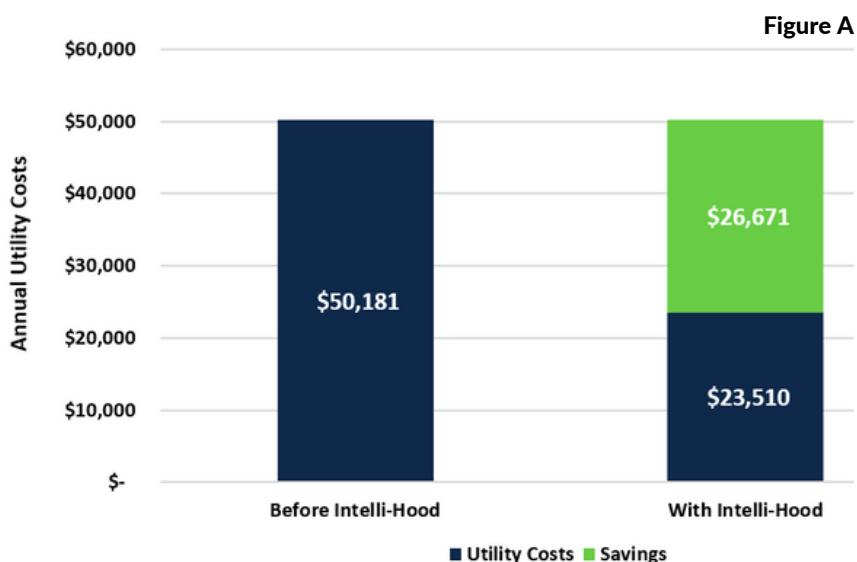
Overview

Iberostar Selection Andalucía Playa, a luxurious beachfront hotel located in Cadiz, Spain, sought innovative solutions to combat energy waste and reduce soaring utility costs. Focused on sustainable practices, the hotel decided to implement Intelli-Hood's cutting-edge technology in their commercial kitchens. Intelli-Hood utilizes dual-sensing technology to optimize fan speeds based on cooking demand, promising significant energy savings.

Implementation

The installation on Intelli-Hood's controls was meticulously planned to minimize disruptions to guests, kitchen staff, and daily operations, showcasing a commitment to a seamless experience. The integration process involved close collaboration with the hotel's staff, fostering effective communication and ensuring a seamless transition. The integration of the Demand Control Kitchen Ventilation (DCKV) controls was executed with precision, resulting in minimal downtime for the kitchen staff, emphasizing the careful consideration and expertise applied throughout the implementation.

Annual Kitchen Hood Utility Costs (USD)



Iberostar Selection Andalucía Playa - D'CAI Cocina de Mercado

Figure A compares the annual utility costs prior to Intelli-Hood's installation vs. after. The graph highlights the savings achieved by Intelli-Hood's DCKV installation.

Performance Results

The performance results post Intelli-Hood installation were remarkable. Prior to the implementation, the hotel faced annual utility costs of \$50,181. After installing the DCKV controls, the annual utility costs dropped to \$23,510, resulting in substantial savings of \$26,671 (Figure A). The favorable financial impact of Intelli-Hood's 2.6-year payback period demonstrated its considerable benefits, solidifying the investment as a worthwhile Iberostar's Selection Andalucía Playa Hotel.

The hotel experienced a remarkable 53% reduction in operating expenses, showcasing the immediate impact of Intelli-Hood's technology. The significant reduction in operating expenses resulting from Intelli-Hood's implementation played a pivotal role in offsetting overall costs for the hotel, contributing to enhanced financial efficiency.

Moreover, the commercial kitchen maintained an average fan speed of 60% (Figure B), demonstrating the precise modulation capabilities of Intelli-Hood's dual-sensing technology. This not only contributed to energy savings but also ensured optimal ventilation during high cooking demand periods.

Iberostar Andalucía Playa- Average Fan Speed



Figure B depicts the hotel's commercial fan speed profile over the course of six days. The average was 60%. The spikes in the fan speed represent the increase of cooking demand and the dips represent the decrease of cooking demand.

Environmental Impact

Beyond financial gains, the hotel successfully reduced its overall carbon footprint. The installation of Intelli-Hood led to an annual carbon dioxide savings of 116,507 lbs/year, aligning with the hotel's commitment to environmental sustainability. This reduction in emissions not only reflects positively on the hotel's corporate responsibility but also contributes to the broader global effort to combat climate change.

Conclusion

The adoption of Intelli-Hood's controls at Iberostar's Selection Andalucía Playa Hotel marks a pivotal decision with significant implications. The notable decrease in utility costs, along with an impressive payback period and a substantial reduction in carbon emissions, underscores the concrete benefits of incorporating Intelli-Hood's DCKV controls for energy management. The hotel successfully optimized its kitchen's energy consumption, enhancing performance and fostering a more sustainable operational approach.