

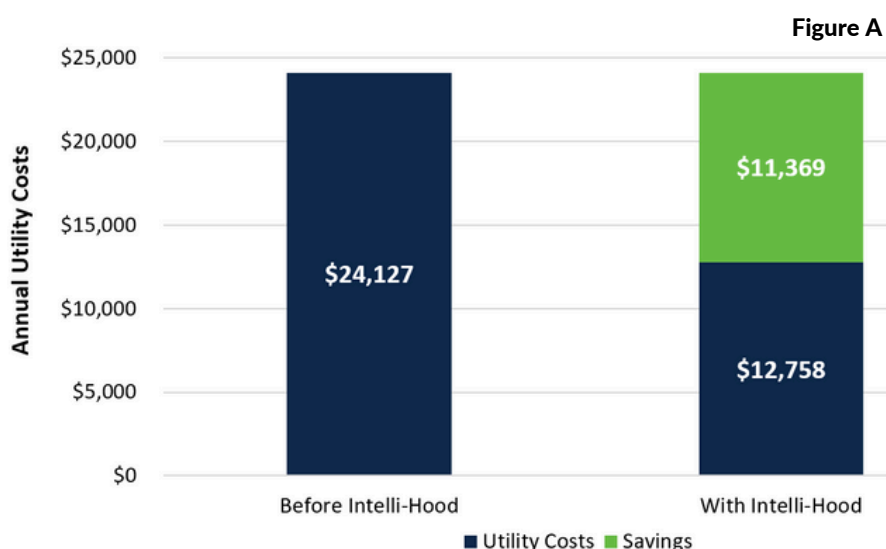
## Overview

Eurostars Palace Córdoba, located in Cordoba, Spain, faced significant concerns regarding wasted energy and high utility costs in its hotel kitchen. Seeking a sustainable and cost-effective solution, the management decided to explore Intelli-Hood's innovative Demand Control Kitchen Ventilation (DCKV) controls. Intelli-Hood's system utilizes dual sensing and smart technology to modulate commercial fan speeds based on cooking demand, promising energy efficiency and reduced operational costs.

## Implementation

To ensure minimal disruption to daily operations, the installation process was meticulously planned and executed. The project team worked closely with the hotel staff to schedule the installation during off-peak hours, minimizing inconveniences for both guests and kitchen staff. The Intelli-Hood system seamlessly integrated with the existing kitchen infrastructure, and the technicians ensured swift installation without compromising safety or hygiene standards.

### Annual Kitchen Hood Utility Costs (USD)



#### Total Energy Savings

\$11,369/Year



#### Carbon Dioxide

59,818 lbs kg/Year



#### Simple Payback Period

2.1 Years



#### Operating Expense Reduction

47%



Eurostars Palace Córdoba Buffet

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 installation brought about transformative changes, enhancing the kitchen's efficiency across various operations and positively influencing key areas, resulting in a significant improvement in overall performance and resource utilization.

**Utility Cost Savings:** Before the installation of Intelli-Hood, Eurostars Palace Córdoba faced an annual utility cost of \$24,127. However, following the implementation of Intelli-Hood, the hotel witnessed a substantial reduction in its utility expenses. The post-installation utility cost dropped significantly to \$12,758, resulting in an impressive annual savings of \$11,369 (Figure A).

**Simple Payback:** One of the key indicators of the success of Intelli-Hood's DCKV controls at Eurostars Palace Córdoba was the rapid and favorable payback period. The project achieved a simple payback period of 2.1 years, demonstrating the swift return on investment that Intelli-Hood's technology provided.

**Operating Savings:** Eurostars Palace Córdoba experienced an operating expense reduction of 47% after the installation of Intelli-Hood. This significant decrease in operating

expenses emphasized the long-term financial benefits that the hotel derived from implementing DCKV controls. The hotel's commercial kitchen now operates at an average fan speed of 61% (Figure B), reducing the amount of wasted energy during cooking.

**CO2 Annual Savings:** Intelli-Hood had a positive impact on the hotel's environmental sustainability goals. The annual carbon dioxide savings amounted to an impressive 59,818 lbs, showcasing the tangible contribution Intelli-Hood made towards reducing the hotel's carbon footprint.

## Conclusion

The installation of Intelli-Hood at Eurostars Palace Córdoba proved to be an efficient solution, addressing the hotel's concerns about wasted energy and high utility costs. The seamless integration, coupled with impressive performance results, demonstrated the effectiveness of Intelli-Hood's smart technology in optimizing kitchen ventilation systems.

Eurostars Palace Córdoba showcases the positive outcomes of Intelli-Hood's cutting-edge solutions through financial savings, reduced environmental impact, and enhanced operational efficiency.

**Eurostars Palace Cordoba - Average Fan Speed**

