

# W Hotel Case Study



## KEY SAVINGS

### Overview

The W Hotel on Yas Island, Abu Dhabi, is renowned for its luxury and commitment to environmental sustainability. In line with its dedication to sustainability, the hotel recently implemented Intelli-Hood, an advanced energy-saving technology, into 17 of their kitchen exhaust systems. This case study explores the impact of Intelli-Hood on the hotel's utility costs, operating expenses, and environmental footprint.

### Benefits

Prior to the installation of Intelli-Hood, the W Hotel on Yas Island was incurring substantial utility costs of 558,345 AED annually. However, after the installation, these costs dramatically reduced to 277,196 AED, representing an impressive cost saving of 281,148 AED. This reduction showcases the immediate impact of Intelli-Hood in optimizing the hotel's energy consumption and, by extension, reducing utility expenses.

The installation of Intelli-Hood at the W Hotel on Yas Island, Abu Dhabi, has proven to be a strategic and efficient move. The technology not only resulted in substantial utility cost savings but also reduced overall operating expenses by 50%. The average fan speed utilization of 63% is shown in **Figure B** below. This case study showcases that Intelli-Hood is not only a cost-effective solution but also an environmentally responsible choice by reducing the hotel's carbon dioxide emissions while having a simple payback period under 2 years.



**Total Energy Savings**  
281,149 AED/Year



**Carbon Dioxide**  
637,634 kgs/Year

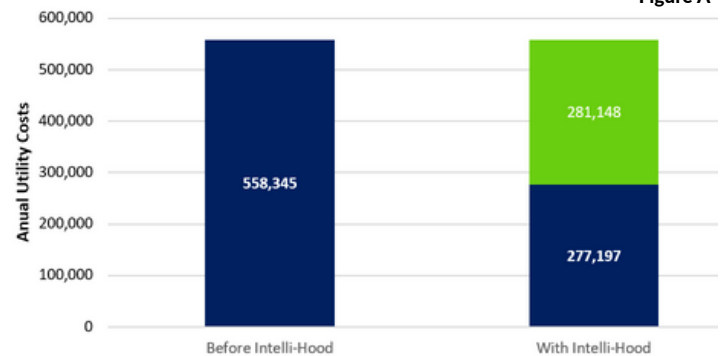


**Simple Payback Period**  
1.7 Year



**Operating Expense Reduction**  
50%

Annual Kitchen Hood Energy Costs - AED **Figure A**



W Hotel - Yas Island Fan Speed **Figure B**

