

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 \$151,981 annually. However, after the installation, these costs dramatically reduced to \$75,453, representing an impressive cost saving of \$76,528. 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
\$76,528/Year



Carbon Dioxide
1,405,742 lbs/Year



Simple Payback Period
1.7 Year



Operating Expense Reduction
50%

Annual Kitchen Hood Energy Costs - USD

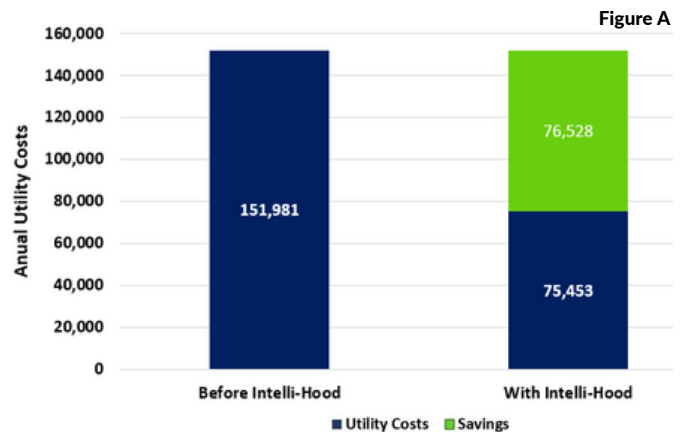


Figure A

W Hotel - Yas Island Fan Speed



Figure B