

# Case Study

[Sanset]

## Airis Energy Solutions UK



---

35a Victoria Road East  
Thornton Cleveleys  
FY5 5BU



---

01253 283050



---

[enquiries@airisuk.com](mailto:enquiries@airisuk.com)  
[www.airisuk.com](http://www.airisuk.com)



## Background

Sanset Padel Indoor is a paddle tennis club with 31 indoor paddle tennis courts; they chose AIRIS LED technology to improve the lighting in the courts.

The LED lights enhanced light distribution, providing uniformity, and also allowed further energy savings and reduced maintenance costs.

## Airis LED Solution

After conducting the study of light and taking into account the clients requirements, Airis decided replace all the luminaries.

Sanset indoor paddle tennis court lighting was based on 400W metal halide high bays which were inefficient. Additionally, traditional high bays produced extra heat which is inconvenient in a paddle tennis court where people are exercising. The traditional lighting was replaced by Airis LED 180W High Bays. Airis Manufactures their LED lights therefore reduces the cost.

## Building Data

**Location:** Calle de Fuerteventura, 9,  
28703 San Sebastián de los Reyes,  
Madrid, Spain

**LED Highbays:** 234

## Investment Type

**Total Savings -** £29,683  
**Savings Split -** 80% Airis  
 20% SANSET  
**Payback Duration -** 47 Months

## Previous Situation



## Airis LED Solution

### 234 High bay metal Halide

234 High bay metal Halide  
Operating hours: 4.30  
Typo: 400W Halide High Bay  
Lifetime: 8.000 hours  
CRI: >70  
Colour temperature: 4.000 K

**Energy consumption: 440.716 kWh/year**  
**Energy bill: £49,103 per anum**

### 234 High bay Airis LED

234 High bay Airis LED  
Operating hours: 4.30  
Type: AIRIS LED High Bay 180W  
Lifetime: 50.000 hours  
CRI: >80  
Colour temperature: 4.000 K

**Energy consumption: 184.486 kWh/year**  
**Energy bill: £19,420**

## Process

### Preliminary data collection:

The team gathers information on existing lights, light distribution and current electricity use and cost.

### Proposal:

Solutions are presented to the customer. In large projects AIRIS offers the possibility of performing a sample test. The customer will choose test locations where AIRIS will install luminaries

### Installation:

Lighting systems are installed without interfering with the customer's day to day operation. Additionally, there will most likely be savings derived from HVAC improvements which haven't been included in the calculations.

## >60% SAVINGS

### Summary of benefits:

Results were, >60% less energy consumption, with the lighting levels improved by 38%. In addition, a reduction of 105 tons of CO2 per year has been achieved.

	CONVENTIONAL LIGHTING	LED LIGHTING
ANNUAL CONSUMPTION	440.716 kWh/year	184,486 kWh/year
ANNUAL SPENDING	49.103 £/year	19,420 £/year





[www.airisuk.com](http://www.airisuk.com)

