

# Case Study

[InterSport]

## Airis Energy Solutions UK



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## Background

Tovar - Inter Sport has a leading position in the sporting goods retail market. Inter Sport superstores have different areas with different lighting.

Inter Sport chose AIRIS LED technology to improve the lighting in its superstore. 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 client's requirements, AIRIS decided to replace all the luminaries. Traditional track lights were replaced by LED track lights which produced less heat, saving AC costs. Conventional tubes were inefficient, light coming out from them is diffused, whereas LED tubes have an ULOR of 0%, projecting all the light downwards, having minimal losses of light around the lamp. Each group of two 5 ft tubes was substituted by a LED T-bar which has a flat design that gave the stores a less crowded look.

## Business Data

**Total Savings** - £11,846 a Year  
**Savings Split** - 80% Airis  
20% INTERSPORT  
**Payback Duration** - 31 Months

## Previous Situation

## Airis LED Solution

### Before

Type	Power	Units
Track Light	100W	152
High Bay	150W	36
High Bay	250W	15
5 ft Tube	116W	154
4 ft Tube	36W	32

**Total: 139,554 kWh/year**

### After

Type	Power	Units
AIRIS LED Track Light	40W	83
AIRIS LED High Bay	70W	33
AIRIS LED T-Bar	48W	77
AIRIS LED 4ft Tube	18W	32

**Total: 31,863 kWh/year**

## 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.

## >75% SAVINGS

### Summary of benefits:

Results were, >75% less energy consumption, with the lighting levels improved by 38%. In addition, a reduction of 54.5 tones of CO2 per year has been achieved.

	CONVENTIONAL LIGHTING	LED LIGHTING
<b>ANNUAL CONSUMPTION</b>	139,554 kWh/year	31,863 kWh/year
<b>ANNUAL SPENDING</b>	15,351 £/year	3,505 £/year



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