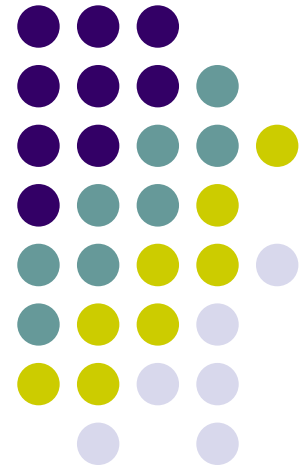


i|VISION

Case Study :

DJ's Refrigeration



Project Brief

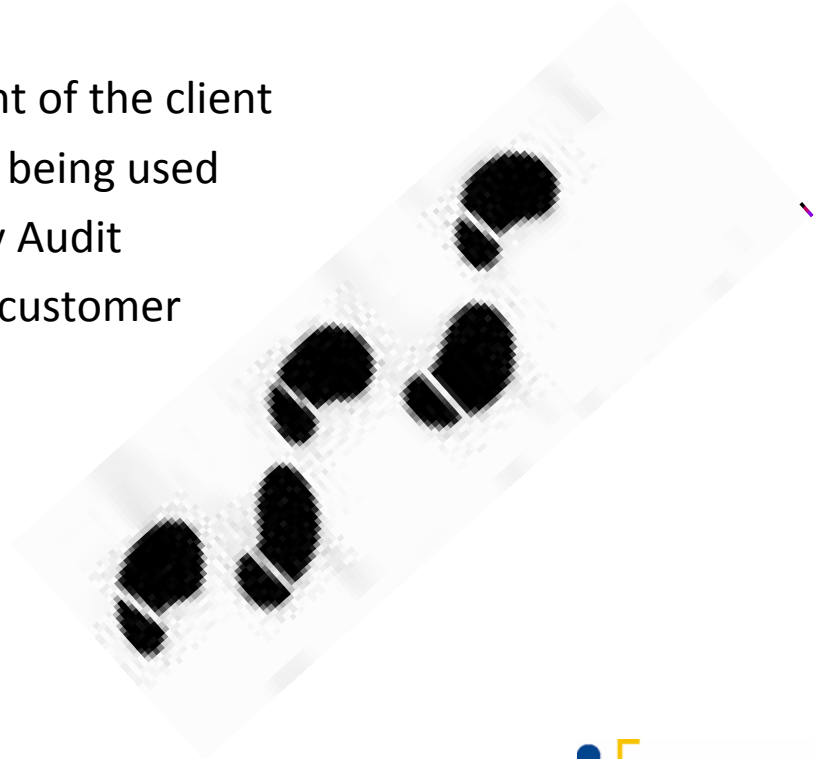


- To provide a solution for a new build warehouse that provides a saving of 70% or more on conventional lighting
- Offer a solution that is easy to interface with a renewable energy source
- Offer a good lighting spread across the entire business layout to ensure good visibility to all users.

Steps Taken to complete



1. Understand the requirement of the client
2. Review the existing lighting being used
3. Complete an i-vision Energy Audit
4. Present the solution to the customer
5. Install and project manage

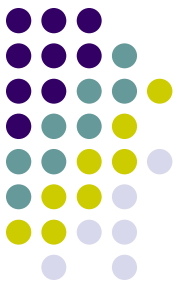


Review of Existing lighting scheme



- Consultation with the Office Manager and construction team of DJ refrigeration to understand what the plan for lighting was
- The proposal of conventional lighting was a mixture of 35w halogens, 36 watt CFL's and 400 watt High Bay lamps.
- The proposal of lamps had an expected life time of between 8,000 & 15,000 hrs

Energy Audit existing products



- After taking all of the information of the proposed lighting system we were able to establish the below information.

Proposed Conventional Lighting			
Energy Consumed (Kilowatts)	Cost of Energy (£/KWH)	Annual Cost of Electricity	Total Costs
35,412	0.12	£3,541.23	£3,541.23

**These figures are per year based on the number of fittings that the Factory had prior to our solution*



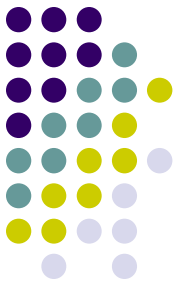
The Solution

- Once we had gathered all of the information we were then able to decide on how we were going to replace the existing lighting scheme and improve on it.
- Lighting =
 - The 400watt High Bay fittings were replaced by our 55 watt high bay fittings.
 - The 35 watt halogens were replaced with our 6 watt Lumos 3's and the 35 watt CFL's were replaced with our 13.5 watt AR111's
 - We also added PIR and Zone control to ensure that the lights were used as and when needed



Energy Audit

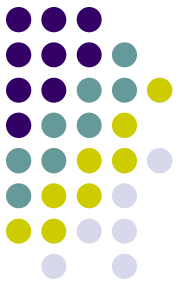
The Lumos Solution



- THE SOLUTION details the considerable savings achieved

Proposed LED Lighting			
Energy Consumed (Kilowatts)	Cost of Energy (£/KWH)	Annual Cost of Electricity	Total Costs
5,529	0.12	£552.98	£552.98

Comparing the Lumos Solution



Key factors

Investment Cost	£9,584.00
Payback Period For your investment (YRS)	2.741
Energy and Lamp replacement savings	£17,483.40
Net Savings Whole of Life	£39,916.43
Net CO2 savings for period (Kgs)	102,713.67
Estimated Whole of life period (years)	11.416

YOUR CO2 savings equate to taking

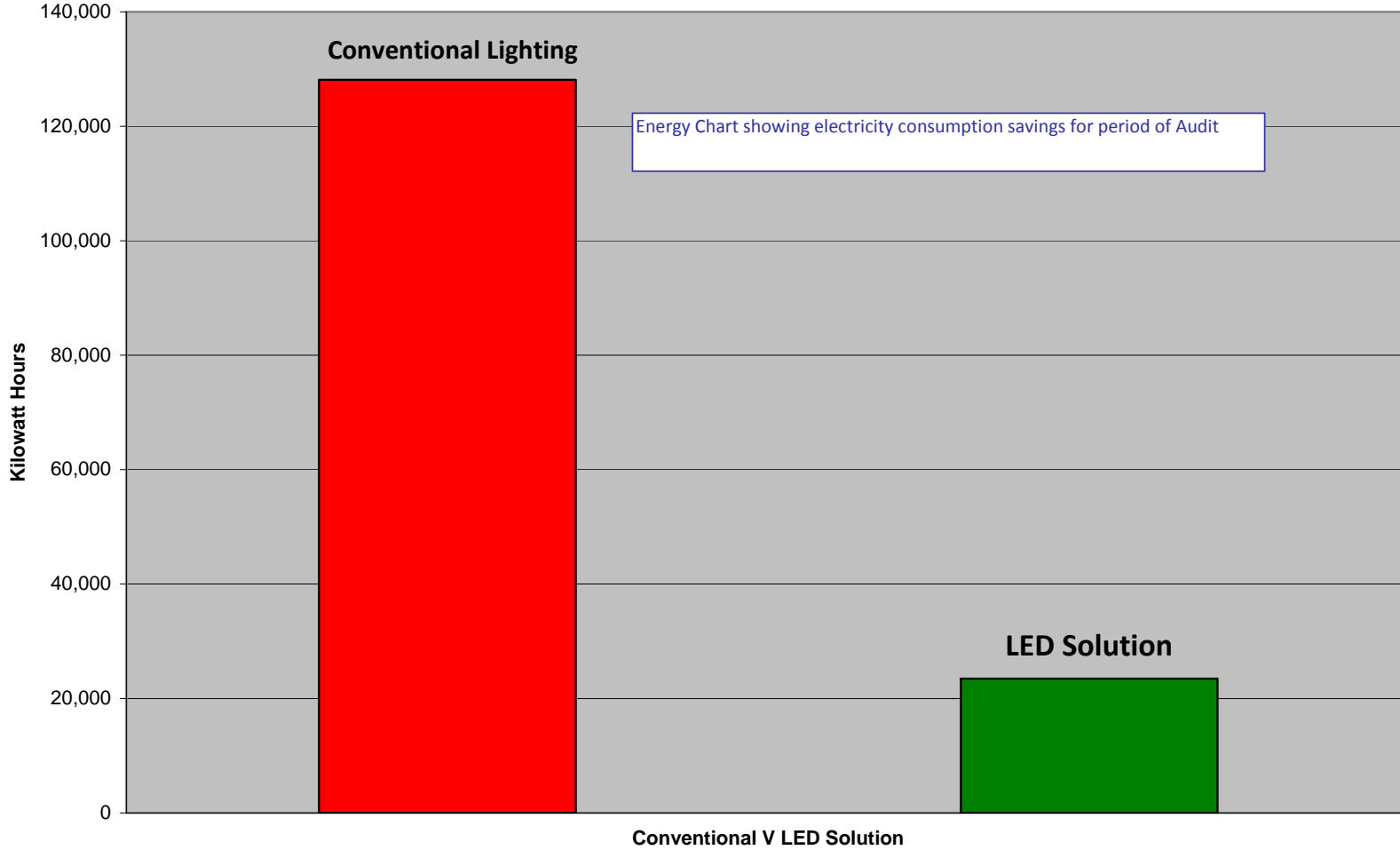
3

CARS of the road per year

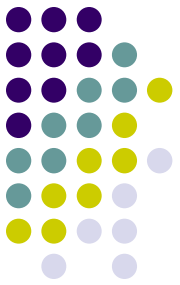
Energy Chart



Energy Chart

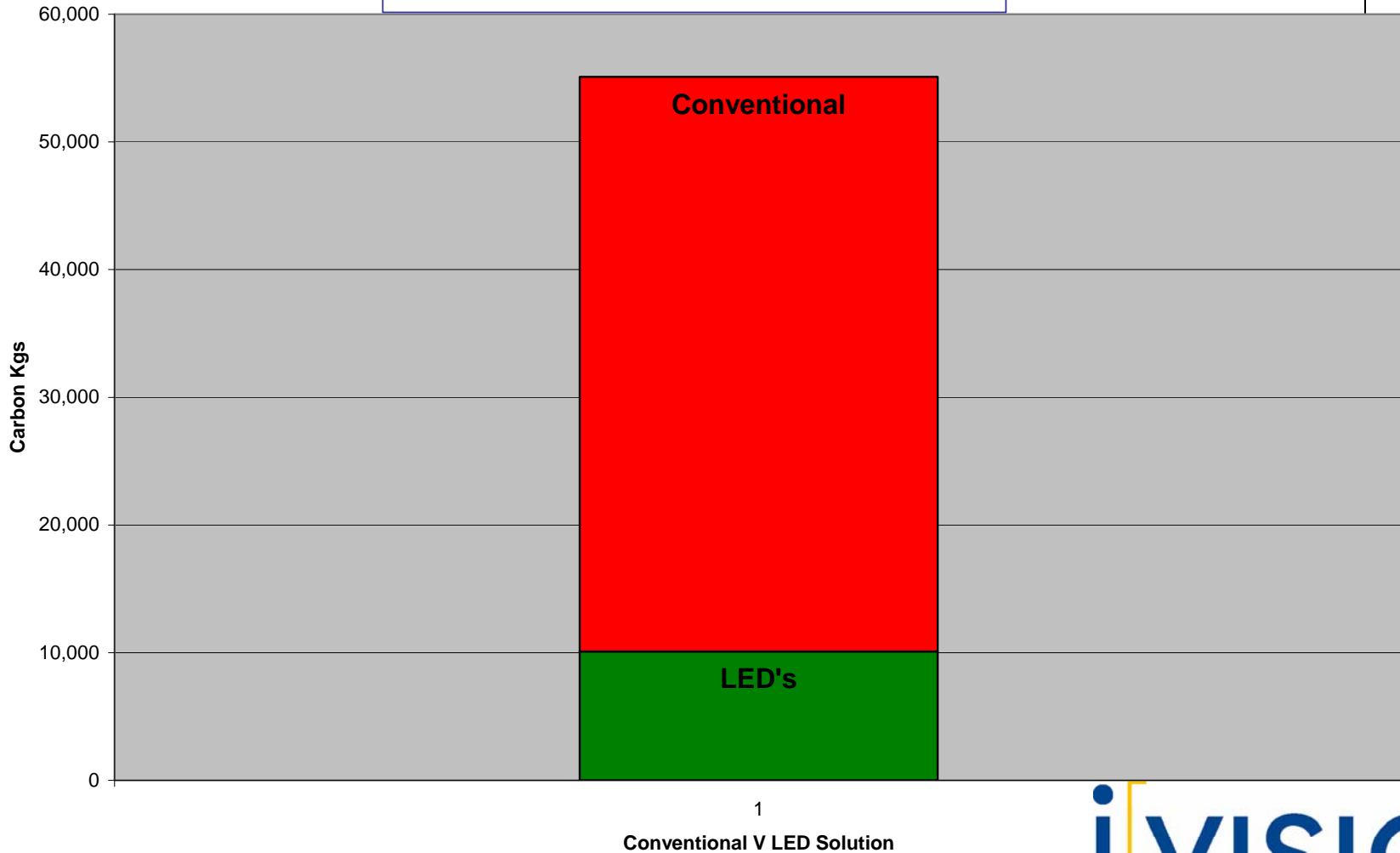


Carbon Comparison



Carbon Comparison

Energy Chart showing carbon comparison for the period of the audit.



Simple Executive Summary



Executive summary for:

Key facts for decision makers:

The main benefits of proceeding with this proposal include the following:

1) Whole of life savings of	£39,916.43
2) Significant reduction in maintenance call outs	?
3) Payback period is only	2.74
4) The net cash benefit to the organisation over Whole Of Life	£30,332.43

This means that cash resources can be released for other purposes

Key factors

Investment Cost	£9,584.00
Payback Period For your investment (YRS)	2.74
Energy and Lamp replacement savings	£17,483.40
Net Savings Whole of Life	£39,916.43
Net CO2 savings for period (Kgs)	102,714
Estimated Whole of life period (years)	11

Installation and project management



- Once the project had been agreed the Product was manufactured in our Manufacturing Facility in Cwmbran, Wales and then delivered direct to site.
- On this occasion we supplied the product to the client and they completed installation.
- We were able to assist the client with full project management during installation

Summary



- The client is now seeing a reduction in their Energy Costs of up to 80% in this area.
- They are soon to be installing a renewable energy source that will interface direct with the lighting scheme
- This project is now used by us as a demonstration unit as the light coverage is very good.
- The Client has since asked us to look at further work for them following the success of this project

What This Does For You

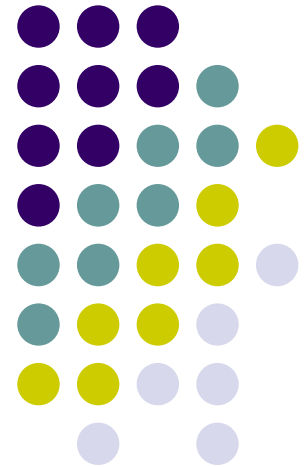
1

Financially

Achieves

£39,916

Whole of Life savings.....JUST IN ENERGY



What This Does For You

2

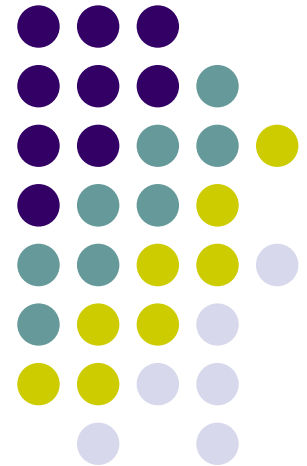
Environmental

Reduces YOUR Footprint by:

35 metric tonnes

Whole of Life

Equates to 3 CARS PER YEAR



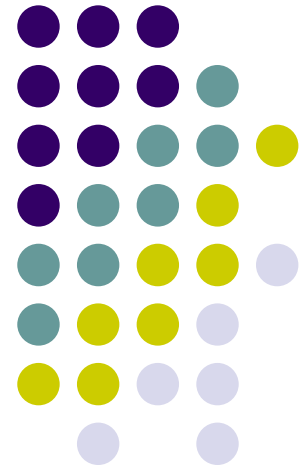
What This Does For You

3

Maintenance

Reduces Maintenance

50,000 Hour Life



What This Does For You

4

Living

Improved the overall lighting

Safety

Environment

Perception

