

Case Study

Energy Consultancy Solution

April 2008



Client: Regency Logistics

Project Brief:

Regency Logistics are a courier company based between Southampton and The Channel Islands. Due to the rise in energy costs and the resulting increase in running costs, the Zero Trace Team were brought in in April 2008 to assess where reductions could be made in the amount of energy being consumed on site. Regency Logistics' key goals regarding energy consumption were;



- To minimise the carbon footprint of the Southampton depot in order to reduce the company's environmental impact and running costs.
- To achieve significant reductions in running costs with low financial investment and no disruption to operating abilities.

Assess:

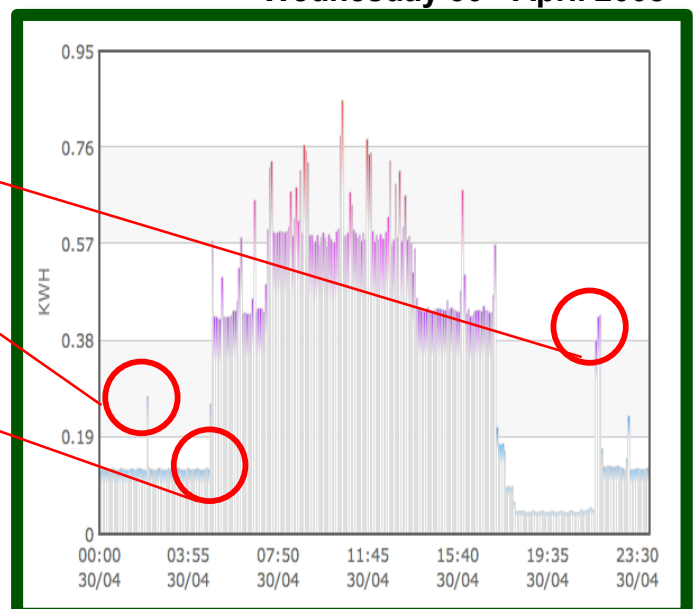
Zero Trace initially took annual and weekly energy usage readings based on billing information and temporary sub meter readings in order to identify the times and areas where the majority of energy was being used. Following this the Zero Trace team also studied the day-to-day habits of the building's occupants to assess where habitual changes could be enforced to lower energy consumption. As a result we were able to identify where energy usage could be reduced and what the likely reasons were for wastage occurring.

In addition an investigation was carried out into the logistics directly impacting on the warehouse to identify if any streamlining could be carried out.

Wednesday 30th April 2008

Energy Spike Anomalies

High Base Load



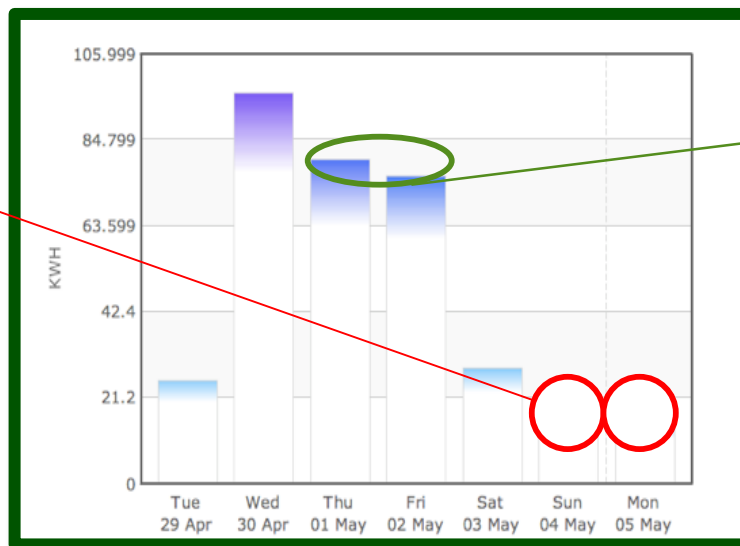
Analyse:

Due to the parameters of the report, the team had to devise a plan to reduce the unnecessary energy use identified in the assessment stage with a low financial outlay to the client. As a result, the measures that were recommended to the client were of relatively low cost, including retrofitting energy efficient lighting systems and adding insulation to specific areas of building framework.

Habitual changes played a large role in the reduction of Regency Logistics' energy usage because of the low budget. The team therefore addressed the 19Kwh of energy being used constantly through down days when the warehouse was not in operation. (Enough energy to power 15 computers.) In order to achieve the changes required we devised a reward scheme and inter workforce competition to increase their awareness.

During this stage of the process the team were also able to identify that the warehouse was not being used to its full capacity. Upon further investigation we discovered that on average only 50% of the building was occupied, leading onto the question of whether the building was suitable for its purpose. The team then continued to investigate and found that savings could also be made through restructuring of site-specific logistics.

**Week Assessment Period
April 2008**



Down days drawing a constant 19 KWh

Simple advice and monitoring from Zero Trace reduces energy consumption.

Implement:

After producing a detailed report the results were presented to the directorship of Regency Logistics. The revelations it produced were taken on board and two major measures were undertaken. Firstly, the warehouse was relocated to a smaller site, saving on all aspects from rent to energy. Secondly it was realised that distribution could be shared with a neighboring local company, which resulted in saving money and also significantly reduced their carbon footprint. In addition to this, smaller measures were implemented in order to lower the energy use in direct relation to the habits of the new build's occupants. More attention is now paid to the amount of equipment left on when not required and to the time large access doors are open resulting in lower heat loss.

Zero Trace has kept in contact with Regency Logistics to ensure future success and offer continued advice regarding their new location. This has prompted the kind testimonial below;

"An efficient and friendly company that led the way to us saving £140,000 a year."

Through working with Zero Trace Ltd, Regency Logistics' original goals of reducing the carbon footprint and running costs of the location were achieved in a manner totally bespoke to them.