

Case Study

Royal Naval Air Station Yeovilton

- Customer: Royal Naval Air Station Yeovilton
- No of units installed: 9,899
- Electricity Bills: Reduced by 600,000 kWh+ / year
- CO₂ Savings: 321 tonnes / year

Royal Naval Station cuts its electricity use by 12,000 kWh per week through innovative lighting upgrade



PROJECT OVERVIEW

RNAS Yeovilton undertook an energy-efficient lighting installation across its premises, using innovative retrofit device, 'Save It Easy®', to dramatically reduce its lighting energy consumption.

BACKGROUND

RNAS Yeovilton is one of the Navy's two principal air bases, and one of the busiest military airfields in the UK. The base is located near Yeovil in Somerset and covers around 1,400 acres. It is home to more than 100 aircraft and some 4,300 service and civilian personnel.

THE CHALLENGE

When RNAS Yeovilton, through Defence Estates, embarked on a challenge to reduce 10% of its energy on 10 bases in the SW supported by Debut Services Ltd, it selected as one of the measures energy-efficient lighting. However, disruption to operations at one of the busiest airfields in the UK could not be undertaken lightly, so the pressure was on to design an innovative retrofit approach with the proviso that the installation took place in the shortest possible time and with minimal operational disruption.

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THE SOLUTION

Debut's Energy Engineer, Clive Stacey, came across Save It Easy products when they were exhibited at Debut's annual Sustainability Conference. He was impressed that the lighting installation could be undertaken with minimal disruption to the building fabric and that it was a tried and tested technology.

By retrofitting the lighting using the Save It Easy conversion units, the upgrade to energy-efficient lighting at the base could be carried out quickly and without excessive dust or noise.

Just under 10,000 lamps were converted, across 70 widely differing building types on the site. The lamps ranged in size from 2ft to 8ft, both Switchstart and Starterless. Energys Services Ltd (ESL), the installation arm of Energys Group, worked in harmony with Debut's management teams and supply chains to complete the installation in just six weeks. In fact, during the installation process, ESL worked around the base operations schedule, in order to avoid interrupting the base's activities.

RESULTS AND OUTCOME

The energy bureau, operating for Debut at RNAS Yeovilton, reported a significant reduction on energy consumption since the installation of T5 lamps and Save It Easy. The original Energys calculations estimated that the installation of Save It Easy would deliver savings of 555,127kWh.

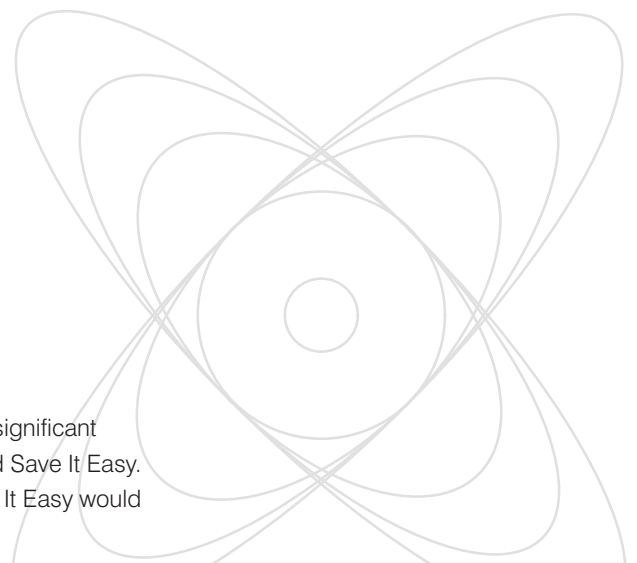
However, the actual figures proved to be even better. With weekly savings of just under 12,000 kWh, bureau staff calculated a saving of 600,000 kWh over the financial year, which translates as 321 tonnes/year of CO₂. This means that Energys exceeded its own expectations and that of the customer by 8%.

CLIENT TESTIMONIAL

“Making the switch to energy-efficient lighting was considered a particular priority, since it can provide dramatic reductions in electricity use. We were particularly interested in using a retrofit product to install the new lamps, so that we could retain the existing light fittings in the buildings on the base. I first came across 'Save It Easy®' products when they were exhibited at Debut's annual Sustainability Conference. I was impressed that the lighting installation could be undertaken with minimal disruption to the building fabric and that it was a tried and tested technology.”

Clive Stacey

Energy Engineer at Debut Services Ltd (RNAS Yeovilton contractor)



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