

## CASE STUDY

# MOD

### Project Background

Across UK Government ministries and organisations, against a backdrop of tightening budgets, senior management has been increasingly under pressure to cut costs generally coupled with a need to implement strategies to reduce carbon and ultimately meet new Net Zero targets.

The Government (BEIS) described the installation of LED lighting as “a no-regrets measure” and has for some time been encouraging all government bodies to accelerate retrofit programmes. In 2016 the Ministry of Defence initiated a programme of LED lighting upgrades through the Defence Infrastructure Organisation’s (DIO) hugely successful Spend to Save energy programme.

### Why Energys?

The decision to use Energys products was based primarily on their short payback period, and between 2013 & 2016 Energys surveyed supplied and installed LED solutions across 17 sites in the UK. The total value of the project was just under £8m with an ROI of 2.5yrs. The project was agreed on the proviso that all the sites would be completed within 6 months.

### Challenges

The obvious sensitivity surrounding MOD sites meant that all work required a fully vetted

installation team and all technology utilised needed to meet MOD’s strict criteria. Site access required co-ordination with local Carillion Amey teams to minimise disruption.

### Solutions

The existing existing light fittings were upgraded to LED using Energys’s New Vision range of commercial lighting products incorporating Intellidim® lighting controls with a service life of 75,000 hours. Energys employed multiple installation teams local to the areas then supplied its own project and site management structure to bring the project in on time and budget.



**“All projects were delivered on time, with a great degree of autonomy and with negligible disruption... it had been a pleasure to work with a company that not only excelled when things were going well but also provided innovative solutions to unforeseen problems and it would not have been possible without the leadership and organisational prowess of the Energys Operations Director ... we could not have hoped for a better outcome.”**

Carillion Amey, Energy Manager,



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### Outcomes

The new lighting infrastructure achieved payback in 2.5 years, but beyond that will deliver substantial lighting-related savings of over 70% of the pre-installation costs, annualised at over £3 million on an ongoing basis with little or no maintenance.

The targeted installation criteria were met to the great satisfaction of Carillion Amey (the at time management company).

Subsequently Energys Group was awarded a broad spectrum of further projects bringing the total to over 50 sites amounting to revenues of £18 million. Taking into consideration the recent increases in energy unit costs it is estimated that the upgrades are delivering annual savings to the MOD of nearly £12 million, with ROIs on new projects being realistically targeted at less 24 months.



### Projected impact

<b>Project Scope</b>	17 UK Mod Sites
<b>Project Value</b>	£8 million
<b>ROI</b>	2.5 years
<b>No of Lights Replaced</b>	60,000
<b>Annual £ Savings</b>	£3.2 million
<b>Annual kWh Savings</b>	26.7 million

Elec rate is £0.45 per unit.

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