Hazardous
Lighting Solutions LTD

BUSINESS CASE STUDY

Pfizer Singapore

Business Background & Challenges Impact

These challenges were impacting operational efficiency, maintenance demands, and overall energy consumption across the site. A more intelligent and sustainable lighting solution was required to support Peel Ports' ongoing commitment to safety, efficiency, and long-term operational performance.

The Company

Our customer, a leading Port Authority in the UK, sought to upgrade their ATEX lighting systems to improve site safety, enhance energy efficiency, ensure a short payback period on investments, and reduce downtime and maintenance. The objective was to implement advanced lighting solutions that meet stringent safety requirements while delivering operational cost savings and reliability. Through this initiative, the Port Authority aimed to significantly improve the overall efficiency and safety of their port operations.

Key Challenges

Developing a smart, easy-to-use ATEX wireless lighting solution for both new and existing (retrofit) facilities without increasing or changing existing wiring.

Lack of innovation

- Inefficient operations
- Low employee engagement
- Siloed departments

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Structured Approach

1. Assessment & Planning

Detailed site assesments were conducted to identify lighting requirements, regulatory compliance, and ptential energy-saving opportunities.

2. Customisation & Integration

The Hazlite system was custtomised to meet the specific needs of the pharmaceutical company’s facilities, intergrating seamlessly with existing infastructure and emeregncy response protocols.

3. Installation & Commissioning

Experienced technicians efficiently installed and commissioned Hazlite lighting solutions, ensuring minimal distruption and validating system performance through rigorous testing.

4. Training & Support

Facility staff underwent comprehensive training on operating and maintaining the Hazlite intelligent lighting system. Ongoing technical support and maintenance services ensured optimal system performance

The Hazlite Solution

HAZ-PRO SMART EX 1

A robust, high-quality LED solution designed and manufactured in Europe, with IECEX and ATEX certifications for operations in Zones 21 and 22, || 2 GD Ex db IIB+H2 T6 Gb Ex tb IIIC T85°C Db, IP66 protection level for operations in temperatures ranging from -20° C to +50° C. Its tubular construction prevents the accumulation of dust, potentially explosive, on the luminaires which is of utmost importance in this type of facilities.

Enhanced Safety: ATEX-certified luminaires improved safety in hazardous environments, reducing the risk of accidents and ensuring compliance with regulatory standards.

Energy Savings: Advanced lighting control algorithms significantly reduced energy consumption, leading to substantial cost savings.

Improved Emergency Response: Automated emergency reporting streamlined response times and enhanced situational awareness during critical incidents.

Cost-effective Installation: The integrated design of Hazlite luminaires minimized installation costs, resulting in overall project savings.

Conclusion

By leveraging the Hazlite Intelligent Lighting System, the blue-chip pharmaceutical company in Singapore

successfully addressed key challenges related to safety, energy efficiency, and operational effectiveness.

The implementation of ATEX-certified luminaires, automated emergency reporting, and cost-effective installation methodologies exemplifies the company's commitment to innovation and excellence in workplace safety and sustainability.