



Hazardous  
Lighting Solutions LTD

BUSINESS CASE STUDY

# Peel Ports

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## 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

# 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.



**Luminaires Monitoring & Wireless Connectivity:** Streamlined monitoring of lighting systems with robust wireless connectivity for real-time updates and alerts.



**Scalable System & Anomaly Detection:** An expandable lighting solution with advanced anomaly detection and proactive maintenance warnings.



**Ease of Installation & SCADA Compatibility:** Effortless installation process with minimal operational costs, fully compatible with SCADA systems for integrated control.



**Resource Optimisation & Scene Adaptation:** Intelligent zoning and scene setting for tailored lighting environments, optimizing resources for maximum efficiency.

# Conclusion



By leveraging the Hazlite Intelligent Lighting System, the customer achieved a significant enhancement in operational safety, alongside outstanding energy and maintenance cost savings.

These efforts have led to a notable reduction in the carbon footprint, culminating in the prestigious “Safest Port” Award.

**Peel Ports are now recognised as the safest port operator in the UK**

This recognition serves as a testament to the successful application of innovative lighting solutions in creating a safer, more sustainable, and cost-efficient work environment.