

Dialight

LIGHTING THE WAY TO A SUSTAINABLE INDUSTRIAL WORLD

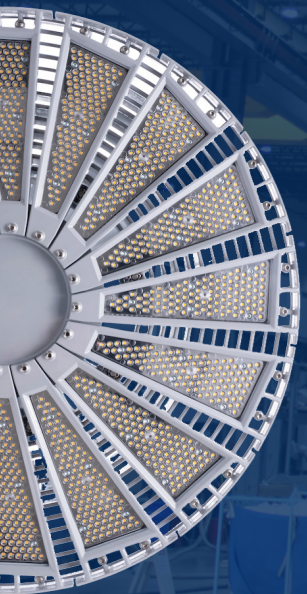
While significant strides have been made over the past several years with regards to corporate social responsibility in the industrial sector, sustainability doesn't necessarily come to mind when thinking about energy consuming, carbon-emitting harsh and hazardous applications.

But it doesn't have to be this way. There are simple, cost-effective steps that can be taken regardless of the industry to make an immediate and meaningful impact. All you have to do is look up.

More than 80% of the industrial world still relies on antiquated, inefficient legacy lighting technologies including High Pressure Sodium, Fluorescent and Metal Halide which require frequent maintenance or replacement, contain hazardous materials such as mercury, and offer sub-optimal illumination to safely perform tasks.



At Dialight, we see a world where heavy industry can be transformed to be safer, more productive and environmentally friendly through illumination.



Pure Play LED Lighting
Company with global
footprint



50 years of LED
technology expertise



Part of the Green Economy
Index of the London Stock
Exchange



Technology proven to
withstand the harshest
industrial environments



Industry Leading 10 year
warranty



Products that last 5X
longer than legacy lighting
and double that of many
LED lighting competitors



Highly efficient, utility
rebate eligible, controls-
enabled illumination



Our products do not
contain hazardous
materials such as mercury
that would require
hazardous disposal

Between 2006 -2019, Dialight
has saved nearly

28 MILLION =
METRIC TONS OF CO₂

Removing a year's worth of
emissions from

6 MILLION
PASSENGER VEHICLES



CASE STUDY: RUBIS TERMINAL

Rotterdam, The Netherlands

PROBLEM

France-based Rubis Group, the fifth largest independent operator in Europe, operates 14 downstream petroleum and chemical facilities. With the development of its new terminal facility in Rotterdam, Rubis aimed to bring online one of the world's most operationally and energy efficient facilities of its kind. At Rubis' other terminals, fluorescent linear and flood lights were inefficient, unacceptable for the new zero-emissions facility and they also make it difficult for staff to perform their work without the use of temporary, portable lights. Ongoing maintenance is a challenge. Workers must build scaffolding and work at high elevation, in teams of two, with portable lighting. Vibration from equipment takes a heavy toll on the fixtures, causing frequent failures, so maintenance is an on-going process. The goals were to reduce total energy consumption, maximize lighting efficiency, improve sustainability and safety, reduce maintenance demand and lower total operating cost. Due to the harbor location, Dark Sky-compliant lighting is a must.

SOLUTION

Due to upgrading to Dialight's next-generation LED fixtures, Rubis expects to reduce energy lighting consumption, along with the greenhouse gases produced as a result, at the new facility by 60% compared to conventional lighting. The company also expects to save €100,000 per year on maintenance, multiplying the annual savings. They provide a much higher CRI and quality of light compared to conventional fixtures to ensure clarity and visibility for workers, creating a safe and welcoming environment for everyone at the site. Energy and maintenance savings is expected to generate a payback period of less than four years, creating a substantial ROI. The outstanding efficiency and sustainability of the fixtures allows the company to meet annual governmental energy audit requirements, and achieve its goal of operating a zero-emissions facility. The project has been so successful, the company plans to expand the project to retrofit existing terminals with new, state-of-the-art Dialight LED fixtures.



Reduced energy consumption by 60%



€100,000 annual maintenance savings



Less than 4 year payback period

CASE STUDY: OQ CHEMICALS

Bishop, Texas

PROBLEM

Formerly OXEA, OQ Chemicals is a global producer of over 70 oxo chemical solvent products used in coatings, lubricants, sunscreens, cosmetics, printing inks and more. Its Bishop, Texas facility, located just outside of Corpus Christi, is a derivatives production facility and one of three OQ U.S. operations. With a strong emphasis on operational efficiency and sustainability, over the past six years, the facility has undergone a massive digitalization and sustainability upgrade to improve productivity and control costs. The problem with this smattering of fixtures was the overwhelming maintenance. Not only did it require procuring and storing an extremely wide range of delicate bulbs and ballasts, but it was a never-ending chore that very often required crews to erect scaffolding, sometimes just to reach a single fixture. That process turned a simple bulb change into a day-and-a-half long affair—for each fixture.

SOLUTION

Over the past 7 years, the Bishop facility has retrofitted 226 SafeSite LED Area Lights and also installed Dialight LED flood lights, linears, and high bays. The company has just purchased some of the latest Dialight Reliant High Bays to replace the overhead fluorescent fixtures in its welding shop, which are at significant risk of being damaged by the pipe and conduit typically handled there. The highly durable Reliant fixtures will provide a safer, more resilient lighting solution compared to the delicate fluorescents. Aside from the hard costs of material procurement, OQ has also saved a substantial amount in labor expenses for relamping. The new LED fixtures improved maintenance savings, lighting quality, and lumen maintenance. With OQ's emphasis on sustainability, the energy savings of converting to LED has also been a key benefit. With per-fixture consumption at least 60% lower than conventional HPS fixtures, Rubio estimates the company is saving about 500,000 kWh in electricity each year.



\$50,000 annual maintenance savings



Over 500,000 kWh in electricity saved each year



Reduction in greenhouse gas emissions

For more information on how Dialight industrial LED lighting can help you achieve your sustainability goals, please email sustainability@dialight.com.

 **Dialight**