

POLYAIR *CASE REPORT*



About Polyair

Size of Facility: 254,942.55 ft²

Polyair was established in 1988 and rose to become an industry leader in the protective packaging market in North America. Polyair offers a full portfolio of protective solutions including integrated packaging systems, mailer products, bubble cushioning, protective foam roll stock and value-added laminations.

Polyair was acquired in 2018 by Intertape Polymer Group. This combined company and its now expanded portfolio of products and expertise allows them to provide complete solutions focused on the evolving needs of their customers.





Problems

When Haneco's consultants conducted the energy assessment for Polyair, there were many noticeable problems with the lighting in their facility.

The Polyair facility was very old and so were the lighting fixtures. We were informed that they were installed thirty to forty years ago and have not been replaced ever since. This made for a very dim environment which created many safety hazards, especially in the plant.

Another issue that was brought to Haneco's attention was the budget. Polyair did not have the budget to complete a retrofit project for every single fixture. The facility had over 500 fixtures, therefore replacing each one would amount to a very high cost.

Outdated Technologies



75W Fluorescent T12s

Fluorescent lighting contains mercury. Mercury can be dangerous if the tubes were to ever break. Most fluorescent tubes are made of glass, increasing the risk of releasing mercury. Fluorescent lighting can last up to 5 years, whereas LED lighting can last up to 10 years. This variant of lighting produces a limited colour spectrum of red, green and blue that makes it look artificial and not flattering.



Solution

The facility ran 24/7, which made scheduling around their operation hours very tedious. Along with difficulty scheduling, there was also the amount of equipment and stationary machinery on the floor making it hard to replace the fixtures above them. With careful planning and the usage of boom lifts we were able to get the job done efficiently within three weeks.

Due to Polyair's budget, Haneco's project managers created a plan to reduce the amount of fixtures by spacing them out. This allowed for a lower project cost as well as energy savings thanks to the right amount of efficient lights. Not only were the lights now fewer and brighter, up to 50,000mg of mercury from the florescent tubes was safely discarded from the facility,

Updated Technologies



150W LED UFO High Bay

LED lighting is advantageous compared to fluorescent lighting in many ways.

LEDs have a longer lifespan without deterioration of quality of brightness and colour.

The maintenance and energy costs are decreased substantially.

LED lighting is designed to be free of hazardous materials such as lead, mercury and other toxic components.

Results

LED lighting resulted in many favourable outcomes for Polyair. For starters, they managed to reduce the amount of work and safety hazards due to dim areas. They managed to cut down on the amount of fixtures required to operate, meeting their budget. Additionally, Mercury disposal was executed safely by Haneco's team of trained professionals.

Polyair will continue to save money moving forward; whether it be maintenance costs being cut down to virtually nothing, or savings on their monthly hydro bills.

ANNUAL ENERGY SAVINGS

567,756 kWh

GOVERNMENT REBATE

\$34,069.10

PAYBACK PERIOD

1.49 YEARS



ABOUT HANECO

WHY CHOOSE US?

Haneco Canada Inc. is a part of a multinational LED manufacturing expanding from South Australia, which is committed to creating a more sustainable future through energy efficient products.

With a proud history of efficiently retrofitting multiple businesses with LED alternatives in its home base, Haneco Canada can offer a wide range of products to meet the majority of lighting needs and utilize our technology to meet individual client needs by providing the best and most cost efficient solutions.

CONTACT US



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