



CASE STUDY

AIR CANADA

CHALLENGE

Air Canada's operations facilities at YVR Airport in Richmond, BC were experiencing high flicker rates, unevenly distributed lighting, and ongoing high energy costs. Additionally, the Air Canada runway had identified issues with glare affecting the pilots in nighttime conditions. Training facilities such as flight simulation rooms and flight attendant study areas were dimly lit with uneven lighting, as was the retail boutique for Air Canada branded apparel.



SOLUTION

Air Canada selected Radiance Energy for their LED upgrade which was an investment of \$1.4 million. Air Canada chose to finance the project over a period of 36 months which resulted in an average monthly savings of \$30,000/month. Radiance Energy installed an LED lighting solution that not only drastically improved lighting conditions for employees but also provided ongoing savings for their energy and maintenance costs. The Air Canada runway was installed with a night vision and anti-glare light solution, as to not affect pilots when descending in the dark. Indoor facilities such as training rooms and retail areas have an LED solution with low flicker rates and evenly distributed lighting, enabling employees to study and train efficiently below

PROJECT SUMMARY

- Saved 74% in energy costs
- 36-month Lights for Service
- Average monthly savings of over \$30,000
- 10 year warranty and 20 year life expectancy
- \$4 million net savings after 10 years

WE AIM TO GET THE BEST FEEDBACK BY PROVIDING THE BEST SOLUTIONS, SERVICE, AND CLIENT EXPERIENCE.

AIR CANADA TESTIMONIAL

"Our new lights are great - clear and bright! But like any business it is often the people who make the difference. I want to commend the installers who efficiently changed the lights in our office area. They were friendly, professional, respectful, and easy to speak with. They were respectful of my work area and made sure that I was always informed of their work schedule - always checking with me first before starting to work. Before they left, they cleaned the office better than how they found it! Kudos to the Radiance Energy Team!"

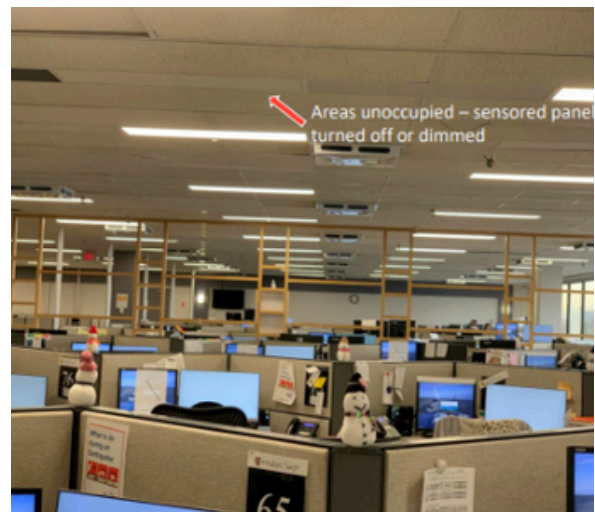
Alan Tuttle

General Manager, Performance and
Compliance at Air Canada

FEATURED: AC YVR CALL CENTER WITH SENSORS & CONTROLS



BEFORE



AFTER



Vancouver, Canada

CASE STUDY

DP WORLD VANCOUVER

DP World Vancouver is the third largest marine terminal operator in the world, with over 60 terminals across six continents.



CHALLENGE

DP World Vancouver's current lighting system consisted of old metal halide fixtures, running at 347V. The fixtures had a high failure rate; and with the site running 24/7, site closures for maintenance were difficult to schedule and very costly.

SOLUTION

Radiance Energy replaced 100 metal halide fixtures with 30 watt IP65 LED fixtures. They installed an efficient control system that allowed the reefer towers to be dimmed then turned on with occupancy sensors and timers resulting in over 90% energy savings.

PROJECT SUMMARY

- Daylight harvesting/motion sensor controls
- \$37,500+ savings in energy and maintenance
- Zero maintenance with our 10 year warranty
- 55,000 lbs/yr GHG reduction
- 96% energy savings





Port Moody, Canada

CASE STUDY

PACIFIC COAST TERMINALS

CHALLENGE

Pacific Coast Terminal, a major bulk shipping terminal, sought an energy-efficient lighting solution to reduce operational costs, improve lighting quality, and enhance workplace safety. Their existing lighting system was outdated, consuming excessive energy and requiring frequent maintenance, leading to high expenses and operational inefficiencies.

PROJECT SUMMARY

- Annual Energy Savings: 81% reduction
- Average Monthly Savings: \$1,853
- Cumulative Savings Over 7 Years: \$74,000
- Zero Upfront Cost Program Implementation

This transformation highlights Radiance Energy's commitment to providing cost-effective, energy-efficient solutions that drive long-term value for industrial facilities.

SOLUTION

In 2018, Radiance Energy conducted a thorough energy audit and implemented an advanced LED lighting upgrade tailored to Pacific Coast Terminal's operational needs. The solution included:

- LED Technology Upgrade: Replacing traditional fixtures with energy-efficient LED lighting.
- Cost Savings: Achieving 81% reduction in energy costs.
- Sustainability: Saving 74,000 kWh annually.
- Zero Upfront Cost Program: Allowing immediate savings with no initial capital investment.
- Long-Term Reliability: Seven-year program covering service, maintenance, and diagnostics.
- Improved Work Environment: Brighter, safer, and more efficient lighting throughout the facility.

