PVL PROJECTS

ENERGY SAVING SOLUTIONS

A ONEnergy Inc. company

CHALLENGE:	Maximize energy savings with LED
SAVINGS:	70% energy savings; over $4,100 per year
OUTCOME:	Achieved target light level of 200 lux

SITE DESCRIPTION

Saputo is Canada's largest producer of dairy products and snack cakes, and one of the top ten dairy processors in the world, with products sold in over 40 countries. Saputo committed to the EnergyStar "Challenge for Industry", which encourages manufacturing facilities to reduce their energy consumption by at least 10% within 5 years. As part of this program, and in effort to modernize the facility, Saputo trusted PVL Projects to find the best technology available for a 12,000 square foot storage area that was being added to the dairy processing facility in Burnaby, BC.

PRIMARY CHALLENGE

The main priority for Saputo was to maximize their energy savings and to use this as a test area for LED technology that could be applied to the entire facility. It was also important for this new technology to outperform fluorescents in a cool storage environment, have a food-safe rating, and provide higher light levels.

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PROCESS

PVL Projects recommended that Saputo install 33 of 65W LED high bays throughout the new storage area, instead of their alternative, which would have required 50 of 133W T8 fluorescent high bays to achieve the same light level.

The facility's director of energy and plant manager were both extremely pleased with PVL Projects' responsiveness and the end results.

OUTCOMES

LIGHTING

After correction, the new lighting system successfully achieved Saputo's light level target of 200 lux, and provided a lasting solution that reduced operations and maintenance expenses to half that of Saputo's other cooler storage areas.

ENERGY

Being a new addition to the facility, no historical energy consumption existed; however, PVL's solution saved Saputo 70% in energy when compared with the T8 vapour-proof fixtures that would have been implemented in absence of PVL's recommendations for LED.

BC HYDRO SUPPORT

Based on the energy reduction solution that PVL designed, BC Hydro offered an incentive to cover 41% of total project cost.