



CASE STUDY

Los Angeles Unified School District Los Angeles, California

The 371,520-square-foot Pico Rivera Warehouse stores refrigerated, frozen and bulk product for The Los Angeles Unified School District (LAUSD). To identify ways to make warehouse operations more energy efficient and cost-effective, LAUSD contracted with GreenTech Energy Services for a total energy-savings solution.



The Challenges:

- The warehouse lighting was shedding inadequate light with a dull, yellowish cast, and was deteriorating over time.
- Lighting throughout the entire warehouse had to remain on constantly during hours of operation, even though most of the aisles and storage space are often unoccupied.
- One panel of the lighting control system was located in the electrical room near a large transformer, which made it susceptible to overheating.
- Although power demand in the freezer and refrigerator fluctuated, motors driving the eight compressors constantly ran at a high level, producing excessive heat, noise and vibration.

The Solutions:

- GreenTech replaced the HID lighting with state-of-the-art T5 fixtures, reducing energy usage, improving quality of light, and maintaining the same light level over time.
- Occupancy sensors were mounted directly to the fixtures in low-traffic areas, and programmed to turn off after 10 minutes of the space being unoccupied.
- The starters on the motors were replaced with Motorboss, which detects variation in demand and adjusts voltage accordingly, allowing motor to operate close to 100% efficiency at all times. Its soft-start capability also decreases wear and tear on the equipment.
- Finally, GreenTech commissioned the panel on the lighting control system to operate properly, and provided in-house training on equipment operation.

THE SAVINGS

New Lighting System	Reduced energy usage by 50 percent, producing savings of \$51,268
Occupancy Sensors	Reduced energy usage by 35%, producing savings of \$17,859
Motorboss	Reduced energy usage by 32%. When extrapolated out to all motors installed, total savings equal \$50,013,
Technology that prolongs the life of lighting fixtures, motors, and other equipment results in operational savings of approximately \$2,500 a year	

“GreenTech’s Energy Savings Program provided the District with verifiable energy savings, rebates from the utility company, reduced operational costs, and an improvement in overall operations. It was well worth the investment.”

Keith Davis, LAUSD Energy Manager

GreenTech Energy Services, 122 East Kings Hwy, Ste 503, Maple Shade, NJ 08052
Phone: 800-690-0420 Fax: 856-778-1668 www.greentechenergy.com

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