



## 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 \$2500 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 Highway, Suite 503, Maple Shade, NJ 08052  
Phone: 800-690-0420 Fax: 856-778-1668 [www.greentechenergy.com](http://www.greentechenergy.com)

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