

CASE STUDY:

# Tundra Restaurant Supply



**TUNDRA**  
RESTAURANT SUPPLY

## Services performed at this facility include:

-  Energy Assessment
-  LED Lighting Design and Implementation
-  Project Management
-  Utility Rebate Management

## Installed Products

-  LED Light Fixtures
-  Lighting Control Systems

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When a leading purveyor of supplies and equipment in the restaurant industry wanted to reduce energy usage and provide greater comfort for their employees, they turned to Energescosolutions.

During Tundra Restaurant Supply's remodeling and expansion of their facility, Energescosolutions was retained to help ensure compliance with City of Boulder energy reporting requirements and additional improvements. Energescosolutions began by performing a thorough energy assessment to determine baseline energy usage, particularly from lighting and HVAC sources. After a careful analysis of their systems, lighting and controls were identified as the measures that could provide the most impact on energy usage while being the most cost effective.

Tundra's space includes a product showroom, an office area, and warehouse spaces. Energescosolutions designed a retrofit schedule for lighting and controls that was unique to each area. For the product showroom, edge-lit, flat-panel LED displays were utilized to provide more output with less wattage and retain a bright, cheery sales area. The same flat panel displays were used in the office area, providing soft, pleasing light akin to natural sunlight. Individual offices were equipped with occupancy sensors to further reduce energy use.

The warehouse area originally contained low-efficiency fluorescent lighting and high-energy use metal halide fixtures before the retrofit. Energescosolutions specified LED high bay fixtures and redesigned the

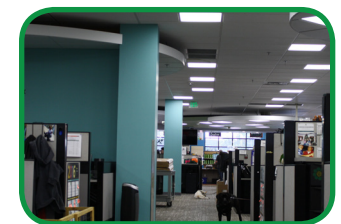
lighting plan to accommodate the number of aisles the warehouse contained, eliminating dark areas. Sensors were installed and set to time settings based on aisle usage. For heavy traffic areas, timers were set for long periods to ensure lighting was on most of the day, but not when unoccupied. For aisles used only rarely to pull products, settings were calibrated to provide light only when pickers were present, vastly decreasing energy usage.

Energescosolutions also retrofitted exterior lighting to provide more light with less wattage and enhance the aesthetics of the facility while maintaining its high-level security.

Overall, rebates were secured for 33% of the project cost and the utility bill is expected to decrease by 20%.

***"We appreciated Energescosolutions's professionalism and customer service throughout the project. Our facility now has updated lighting that enhances our workspace and provides a brighter, more appealing showroom for our customers."***

*- Cara Schlarb, VP/GM Tundra Restaurant Supply*



Project Value	Rebates Secured	Total Out of Pocket Cost	Annual Utility Bill	Annual Cost Savings	Utility Bill Savings
\$221,113	\$73,489	\$147,624	\$64,503	\$12,765	20%