



Case Study: Cencal Beverage Company, Ceres, CA

THE CHALLENGE: Cencal Beverage Company needed a lighting upgrade in its 80,000 sq foot facility to mitigate the high cost and warm-up time on the current metal halide system in the main distribution area. The outdated lights were not only wasting money and energy, but were positioned in a way that made it difficult for forklift drivers to clearly see the products lining the shelves.

THE SOLUTION: In the warehouse, 400 watt MH high bays were replaced with T5's and motion sensors in the aisles. In the cold storage, area T12 fixtures were retrofitted with T8's. Included in the project were 2 sample fixtures with T5 linear tubes next to T8 fixtures because the client was interested in the technology and wanted to conduct a side-by-side comparison. In the office area, older T8s were retrofitted with higher efficiency T8s and motion sensors. The existing outdoor pole lighting in the front parking lot, 400-watt metal halide fixtures that required a long start up time, were replaced with 200-watt induction fixtures that are a pure white lighting source consisting of 100,000 hours of life.



Outdoor



Indoor – Before



Indoor - After

Energy & Cost Savings:

- Program Cost.....\$43,703
- Utility Rebate.....\$8,352
- EPACT Tax Savings.....\$10,926
- Payback Period.....1.1
- KW Saved..... 22
- KWH Saved.....165,608
- Energy Cost Savings.....\$22,357
- Operational Savings.....\$1,311
- Total Savings.....\$23,668

Environmental Impact

- Reduction in Carbon Dioxide (pounds)....248,413
- Reduction in Sulfur Dioxide (grams).....927,407
- Reduction in Nitrogen Oxide (grams).....414,021

“GreenTech Energy was a great resource for upgrading from our high wattage metal halides to energy efficiency T5 fixtures and induction lighting in our lots. These changes resulted in a 50% decrease in energy consumption, and the turnkey services GreenTech provided made the process well worth the investment.”

Don Miller, Cencal CEO