



Lighting Upgrade Case Study – Animal Health Products – Blue Springs , MO

About the Client

Durvet Animal Health Products opened its doors in 1970 with 2 employees, a company van and 500 square feet of warehouse space. Today, they have 26 employees and occupy 78,000 square feet. Durvet's products offer the performance and affordability that today's livestock producers and pet owners demand.



Project Cost/Savings...

Total Cost: \$56,256

KCP&L Utility Rebate: \$23,706

EPA Act Tax Credit: \$14,575

Net Price: \$17,975

Annual Relamp Savings: \$1,403

Annual Energy Savings: \$7,922

Projected R.O.I.: 1.9 years

Durvet Animal Health Products

100 SE Magellan Dr., Blue Springs, MO

Project Features...

Warehouse

- Removal of 110-HID fixtures and 4 Industrial T12 strips
- Replace with 105 – T8 (632) Fixtures, 5 (432) fixtures

•55 occupancy sensors
Installed for added savings

•Replace 15 fixture in cooler
With 15 Industrial High
Efficiency T8

Office

- Removed 35 – T12 recessed
- Replace with 35 – T8 and 4 – Industrial fixtures

•Retrofit 20 Parabolic office
Fixtures to High Efficiency T8

Complete Recycling Service

About Worldwide Energy..

As commercial energy efficiency experts, we help our clients minimize utility expenses with energy efficiency lighting, efficient heating & cooling, and building envelope solutions.

Our efforts focus primarily on the areas that provide the greatest utility cost savings and where financial incentives create a rapid return on investment.

Worldwide Energy offers a total turnkey solution; utility rebate and Federal EPCAct filing services (provided at no additional charge); complete design & installation services; recycling and project financing. Our services usually have a 2 year or less return on investment.

Client Concerns

The Durvet struggled with 3 main concerns:

- Inefficient, outdated lighting – causing dark areas
- Liability concerning safety of the staff and volunteers
- Using too much energy – High utility bills

The Scope of Work

Durvet occupies approximately 78,000 square feet; the largest section is warehouse space with coolers and the remainder being office areas.

The outdated lighting included T12 strips and High Intensity Discharge fixtures.

The client wanted more uniform lighting and to maximize energy savings. Worldwide Energy recommended Industrial High Efficiency T8 lamps throughout the facility and install occupancy sensors

Worldwide Energy maximized the financial incentives for Durvet, by procuring Utility Rebates and Tax Incentives prior to completing the project in 2009.

Recommendations & Benefits

Better visual Acuity – the specified lamps will result in significantly higher lumen maintenance, more uniformity of illumination, and 30% higher color rendering index (CRI), resulting in fewer errors, and improved morale and safety conditions.

Hot Restrike – lamps restart immediately in the event of power interruption and eliminate the need for redundant emergency lighting.

Reduced Maintenance, Repair and Replacement Expenditures – 5-year ballast, 24-36-month* lamp warranties, & 20,000 hour lamp life will result in lower maintenance and repair costs. (based on 4000 annual operating hours)

Indirect Utility Expense Reduction –the specified fixtures will reduce peak demand charges, and reduce the HVAC load, further reducing utility bills.

Significant Greenhouse Emission Reductions – equivalent to removing 16 autos from the road.