



## Appletree Manor Condominiums Independence, MO

### ***About the Client:***

Appletree Manor Condominiums is a well maintained, maintenance provided community tucked away in historic Independence MO. Their custom units feature secured access, common interior and exterior furnished common areas, and secure conditioned underground parking with additional storage options. Appletree Manor Condominiums has been staple community in Independence MO for over twenty years.



### ***The Project:***

Worldwide Energy provided a turn-key lighting upgrade for Appletree Manor Condominiums replacing outdated T12 and metal halide lamps with energy efficient LED, which reduced energy usage and improved light levels.

Worldwide Energy was contracted by the client to upgrade all of their existing T12 lighting to extended life T8 lamps and ballasts. In addition, all metal halides and incandescent throughout the interior and exterior of the facility were to be upgraded to LED.

Appletree Manor Condominiums choose Worldwide Energy based on their expertise in designing the most cost effective project with customized solutions and the ability to secure the maximum rebate value possible for the project.

# Appletree Manor Condominiums

## **Project Savings:**

*Annual Utility Savings: \$9,116*

*Projected R.O.I: Approx. 2 years*

*Rebates secured by WEI: 30% of total project cost*

## **Greenhouse Reduction:**

*82,872 pounds (or 57.1 metric tons) of carbon dioxide*

*Reduction equivalent to annual greenhouse emissions from 9.5 passenger vehicles.*

## **About Worldwide Energy**

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

Our efforts focus primarily on the areas that provide the greatest utility cost savings while producing optimum light levels, and where financial incentives create a rapid return on investment.

Worldwide Energy offers a total turnkey solution; utility rebate and; complete design & installation services; recycling and project financing. Our services usually have a 2 year or less return on investment.

## **Client Goals**

The client had several objectives including:

- Eliminate out-dated, government banned T12 technology and replace with more efficient lighting
- Provide facility residents with brighter, clearer lighting to increase security and safety
- Save annually on utility cost
- Reduce annual maintenance expense while increasing the lifespan of lamps
- Lower carbon dioxide emissions from facility

The T12 lamps that were in place at the client's production building were not only inefficient and outdated, but have been banned from production and importation in the United States, making them increasingly difficult to find as inventories deplete. On top of that, T12 lamps need to be replaced frequently as they only last around 20,000 hours, losing 20% of lumen output in the first half of rated life.

All T12 lamps will need to be replaced sooner or later due to government regulations. By acting now, the client will start saving on utilities immediately, while enjoying a better quality of light and experiencing lower maintenance costs. Additionally, the client was able to take advantage of a 30 percent rebate WEI procured for the project.



*Before lighting upgrade*



*After lighting upgrade*