



The indoor lighting at our customer's Agricultural plant was antiquated and inefficient with energy consumption far exceeding more efficient alternatives in LED lighting. Additionally, conventional Metal Halide lamps have a recurring hazard disposal cost and cost more to maintain, with frequent repairs and replacement. Due to power surges, breakers tripping and electric storms, the lights in the fab area go down and because they are HID fixtures, the fab products area has to stop for approximately 15 minutes while the lights cool down and can be restarted, causing a loss of production time. This is conservatively estimated to happen at least once on a quarterly basis. LED lighting averts this lost productivity with instant response time for restarting. In order to provide a more reliable lighting solution, in addition to addressing the loss of productivity, Kriz Davis, in cooperation with the local plant has been systematically converting existing HID lighting to more reliable LED system. From November through April, a total of 80 LED units were sold and replaced both HID and MH fixtures in the facility. The result is reduction in maintenance costs, hazardous waste disposal and energy operating costs, while at the same time reducing CO2 emissions. This solution will eliminate downtime associated with the 15-minute cooldown period upon shutoff of conventional HID lights, as well. Total calculated savings is \$175,447 in energy dollars saved, reduced maintenance costs and reduced disposal costs. The reduction in downtime accounts for an additional \$12k in savings with an average of one downtime occurrence per quarter. The total savings is \$187,447.