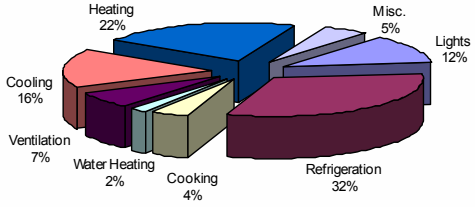
earth savers®

Industrial

Industrial facilities operate long hours and require high, accurate and uniform lighting levels. Until now the most efficient solution in industrial lighting has been metal halide or high pressure sodium high intensity discharge (HID) high bay fixtures. However, the drawbacks have been many: poor quality of light, poor lumen maintenance, color shift, slow restrike (up to 20 minutes), glare, ballast hum, etc. New fluorescent high bay fixtures (T5 and T8) not only solve all of these problems but also use only half of the energy allowing the upgrade to pay for itself in a few months. New electronic ballasts operate at much higher frequencies than obsolete electro-magnetic versions and as the result eliminate flicker and hum, distortion and strobing of other equipment and provide a healthier environment for employees. Better lighting means better quality control and healthier lighting means increased productivity. The electronic technology also makes it possible to achieve additional energy savings through the installation of occupancy sensors and other controls.

Electricity Usage in Industrial (Warehouse) Facilities -- 6.5 kWh/sq.ft./year



Case Study — Arizona Republic Newspaper Plant, Mesa, AZ

The Arizona Republic newspaper is the 11th ranked daily metropolitan newspaper in the nation in terms of circulation. Over 110 years old, the Arizona Republic has a national reputation for innovation and customer service, reaching 1.5 million readers per week. As a 24 hour a day operation, the Republic was interested in reducing their energy cost and upgrading the quality of their plant lighting. The project involved a traditional retrofit of T12 magnetic technology to T8 electronic technology and the installation of new T8 high bay fixtures in place of metal halide and high pressure sodium HID high bay fixtures. The customer wanted to use T8 lamps throughout the facility reducing his inventory to one lamp type. Earth Savers was able to design and install a new lighting system which met the customer's needs without interrupting their production schedule. Earth Savers used GE UltraMax Ballasts and environmentally friendly GE EcoLux lamps, providing the best combination of quality, cost and energy savings. New six-lamp and eight-lamp T8 high bay fixtures with Lexan lenses effectively reduced the input wattage from that of the existing HID fixtures by at least 50% while making a significant and sustainable increase in the perceived light levels, a very noticeable improvement in color rendering and reduction in harsh glare and shadowing. The customer has expressed a high level of satisfaction with the end result.

Total Project Cost	**$132,498.00**
Estimated Annual Energy Savings	**$ 45,374.40**
Payback (Months)	**35**
Annual Return on Investment	**34%**