

States Logistics Services Incorporated

Tolleson, Arizona

Saving energy through zonal control and light harvesting



States Logistics Services Incorporated is a fully integrated provider of third party logistics services that has been servicing its customers for over 50 years. States Logistics began in 1958 by Richard and Jewel May as a warehousing and trucking company. They operate over 2 million square feet of warehouse space in Arizona and California. They have a combination of public and contract warehouses that service a wide range of industries and provide an array of added value services.

Their warehouses are in a constant state of flux. In the time frame it took to add Kanepi Wireless Controls to their existing lighting system the warehouse went from 65% to 90% occupancy and States Logistics added a packaging line.

States Logistics has been practicing environmental sustainable practices since the early 1990's with a comprehensive recycling program. "There's been a push to get a culture change when it comes to sustainability," says Kirk Hellofs.

Their new Arizona warehouse obtained LEED Silver status. The 417,000 square foot facility has a Solar Array, incorporates ambient light through skylights and the lighting system utilized T-5 6 lamp fluorescent lighting fixtures coupled with WattStopper HB-350 occupancy sensors.

Challenges — The customer was not taking advantage of the electrical savings of having the lighting fixtures off during daylight hours. The customer also has vast areas of the warehouse that are not utilized at night but were being lit for long periods of time after initial occupancy sensor activation. The wired timer controls were not working properly and took time to physically change and adjust. The customers lighting plan was not adaptive to the ever

changing warehouse configuration.

States also wanted to drive down their operating expenses and realized that the lighting controls that were being utilized were cumbersome to adjust and were not flexible enough for their operations.

The existing lighting fixtures were Columbia brand and had low voltage control wiring for the HB350 Occupancy sensors.

Solution — Installed Kanepi Wireless System. The system consists of: 730 nodes, 2 gateways and approximately 102 occupancy sensors. There are a number of occupancy sensors due to the amount of pallet rack aisle entry points. We were able to incorporate 2 daylight harvesting sensors to control the whole facility. One sensor per gateway.

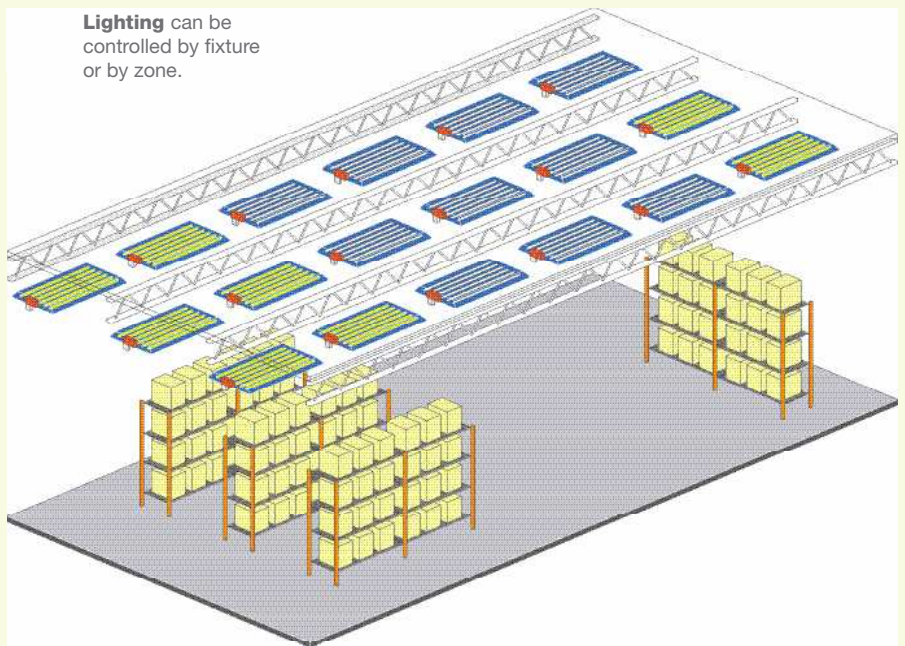
States Logistics



Results—Through continuous work with Kirk Hellofs and his dedicated team of Managers we were able to use grouping and event strategies to achieve 15% more savings than estimated.

During day light hours States is only using 10% of their lighting fixtures. They are utilizing zonal control, light harvesting, and have the ability to turn their lights on medium, drawing half the power of lights on full. Overall the customer feels that they have better control and utilization of their system.

Lighting can be controlled by fixture or by zone.



“There has been a push to get a culture change when it comes to sustainability.”

Kirk Hellofs—
Manager of Facilities
States Logistics Services, Inc.