

# Case Study - Warehouse in USA



## Los Angeles Cold Storage Company

Innovative company with awards for energy management, refrigeration design and modern warehousing

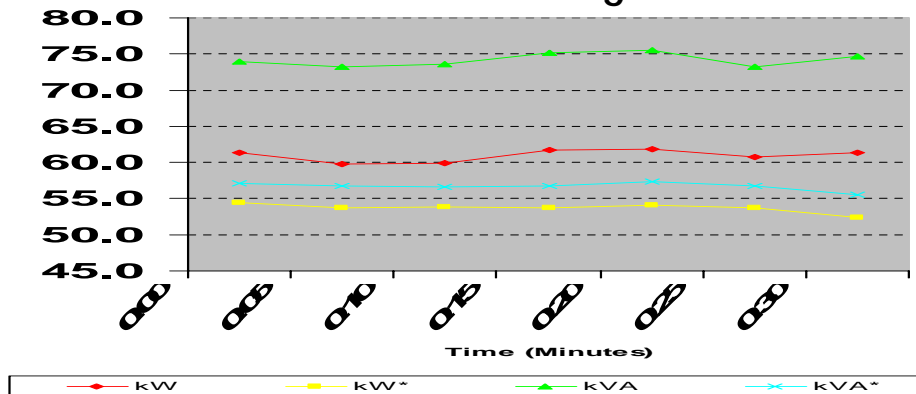
Providing public frozen food warehouse services for over 100 years

Four warehouses in Los Angeles, USA with a Total of 6.5 million cubic feet of freezer space



Power Optimizer is a registered trademark of K&A Americas LLC and AES is the sole authorized distributor in Canada

## 12% kW Savings



### Installation:

The Power Optimizer™ was installed in Sept. 2006 in the first floor compressor room of the largest cold storage facility. The installation was on one of several 100 hp, 3 phase ammonia compressor motors that typically runs at full load 24/7.

### Monitoring:

A baseline study was performed to establish the motor power consumption and other operating parameters under normal circumstances. Motor operating parameters were measured every 10 minutes continuously for 1 week. The Optimizer was installed and then motor operating parameters again were measured every 10 minutes continuously for 1 further week. The Optimizer was left in situ for 4 months and then operating parameters were again measured every 10 minutes continuously over a 48 hour period.

### Results:

The results show a drop of 12% in kW (60.9 → 53.7) and a drop of 23.5% in kVA (74.2 → 56.7) along with an increase of 15% in the Power Factor (0.82 → 0.95). These results occurred immediately and were sustained throughout the 1 week initial monitoring period. The same results were observed after 4 months of Power Optimizer™ operation during the second, 48 hour, monitoring period.