

AMMONIA REFRIGERATED WAREHOUSE CASE STUDY RESULTS



Viking Cold Solutions conducted a measurement and verification study of its Thermal Energy Storage (TES) technology, centered around its patented phase change material (PCM), inside a 93,000 square foot low-temperature cold storage warehouse owned by Dreisbach Enterprises in Richmond, CA.

Peak Period Energy Pricing: 13 Hours

Before TES
Peak Period Consumption & Peak Demand Charges
50% of annual energy COST

VIKING COLD PCM ABSORBS

UP TO 85%

of heat infiltration for more stable temperatures, better food protection, and lower energy costs.

Results

FREEZER ENERGY CONSUMPTION
reduced

35%



PEAK PERIOD CONSUMPTION
reduced

43%



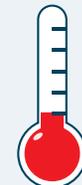
PEAK PERIOD DEMAND
reduced

29%



50%

More Stable
TEMPERATURES



DAILY WEEKDAY CONSUMPTION

