

National Resource Management CASE STUDY

NRM's Remote Site Manager (RSM)[™] — Produce Distribution Warehouse

Since 1995, NRM has been installing its flagship product, *CoolTrol*[®], in walk-in coolers and freezers for meat, floral, produce and fish distributors and convenience, liquor and grocery stores. In 2003, NRM launched RSM that enables customers to monitor, diagnose, control and alarm their refrigeration, HVAC and lighting equipment over the Internet.

RSM has reduced electrical consumption of the facility by 29%, which equals \$29,000 a year in energy costs (nearly 3 times what was originally estimated) resulting in a payback of less than 6 months.

THE PROBLEM

Produce Distributor, located in Chelsea, Massachusetts. Facility has 10 walk-in coolers with a combined volume of approximately 330,000 cubic feet, refrigerated by 18 dedicated compressors. Spaces are cooled year round. Site uses approximately 800,000 kWh per year. Annual energy cost is around \$95,000 and refrigeration accounts for most of it. Customer wanted ability for he and his technician to remotely access, monitor and diagnose their refrigeration system's performance in real time.



High Bay Fruit and Produce Cooler controlled by RSM

THE RESOLUTION

NRM engineered and installed RSM[™] and *CoolTrol*[®] to control temperature, evaporator fans and defrost of each refrigeration unit. RSM allows users to remotely access and set all control parameters. It also sends intelligent alarms configured to save energy and prevent product loss. The system has reduced electrical consumption of the facility by 29%, which equals \$29,000 a year in energy costs (nearly 3 times what was originally estimated) resulting in a payback of less than 6 months.*



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*Savings, paybacks and incentives vary based on utility.