



AMERICAN DEVELOPMENT
INSTITUTE

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Shaw's Supermarket Refrigeration Project



SUMMARY

ADI Energy determined the energy savings of two different energy reduction devices for the supermarket refrigeration systems and anti-sweat heater controls for the display cases throughout the stores.

Energy Conservation Massachusetts
Energy Efficiency Massachusetts

Overall value: less than \$1 million

SERVICES

- Energy audit
- Energy savings analysis
- Energy Trending
- Energy Modeling
- Design Build Energy Engineers
- Energy conservation
- Energy Consultants

MEASURES

- Refrigeration controls
- Energy Management System (EMS)

UNIQUE VALUE TO CUSTOMER

ADI Energy evaluated the energy reduction of two different products that control the evaporator fans and the refrigeration case free-cooling systems for a variety of Shaw's Supermarkets. It was determined that due to the air stratification inside the freezer space the energy savings would be negligible and that the operations would need to change at each site.

Additionally it was determined that the free-cooling system of one vendor's design could possibly lead to possible product contamination. ADI Energy redesigned a different system for free-cooling that would be useful in areas over 6800 heating degree days.

