



AMERICAN DEVELOPMENT
INSTITUTE

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SUMMARY

The Kroger Company retained ADI Energy to perform an Engineering Assistance (EA) study to evaluate energy efficiency upgrades to the existing ammonia refrigeration plant at Southstar LLC in Keller, TX. Specifically, ADI focused on quantifying the energy savings and project economics for EEMs associated with the existing refrigeration systems at the Keller facility.

Energy Efficiency Texas

Energy Efficiency Food Industry

Lifetime Savings: \$842,520

Total Electric Savings:
13,789,170 kWh

SERVICES

- Commercial energy services
- Industry energy services
- Energy engineering
- Energy analysis
- Energy savings analysis
- Energy reductions
- Utility reductions

MEASURES

- Energy Management System
- Refrigeration
- VFD

The Kroger Company Kroger Distribution Center Keller, Texas



UNIQUE VALUE TO CUSTOMER

ADI Energy conducted an Engineering Assistance study for The Kroger Company (Kroger) Kroger Distribution Center facility in Keller, Texas.

Operated by Southstar LLC, the Kroger Distribution Center in Keller is a single building warehouse of approximately 500,000 square feet of refrigerated space with one engine room.

ADI analyzed each energy-consuming system and energy consumption to determine specific areas of energy waste to provide the basis for accurate energy savings calculations. After observing the existing equipment and operational strategies, ADI Energy determined that the facility operated at a high level energy efficiency. ADI Energy recommended two additional EEMs: installing variable frequency drive (VFD) on the compressor package and a Freon condensing unit to the freezer area.

