



AMERICAN DEVELOPMENT
INSTITUTE

Web: www.ADIenergy.com
E-mail: info@ADIenergy.com

SUMMARY

ADI Energy was selected by The Kroger Company to implement a refrigeration system upgrade at its center in Memphis, TN. The project comprised a series of VFD retrofits on existing compressors, condenser and evaporators, as well as upgrade and integration of the new VFDs with the existing refrigeration control system.

Energy Efficiency Tennessee
TVA EnergyRight Solutions
Energy Efficiency Food Industry

Lifetime Savings: \$1,208,250

Total Electric Savings: 901,000 kWh

SERVICES

- Design/build services
- Industry energy services
- Energy engineering
- Start-up and commissioning
- Energy savings analysis
- Energy reductions

MEASURES

- Energy Management System
- Refrigeration
- Compressor, Evaporator and Condenser VFDs
- Controls Integration & Programming

The Kroger Company Kroger Distribution Center Memphis, Tennessee



UNIQUE VALUE TO CUSTOMER

Kroger partnered with ADI to implement the majority of its original recommendations, including variable frequency drives (VFDs) on evaporator and condenser fan motors, and a large (250 HP) ammonia compressor, as well as integration of all installed equipment with the plants existing control system.

ADI was able to provide a very cost-effective solution by mounting VFDs where practical in existing motor control centers, thus reducing wiring and other installation costs.

The annual energy savings of this project was 901,000 kWh which translates into over \$1,208,250 of lifetime savings.

