



AMERICAN DEVELOPMENT  
INSTITUTE

Web: [www.ADIenergy.com](http://www.ADIenergy.com)  
E-mail: [info@ADIenergy.com](mailto:info@ADIenergy.com)

## SUMMARY

ADI Energy was retained by The Kroger Company to perform an Engineering Assistance (EA) study to evaluate specific EEMs for The Kroger Company (Kroger) Kroger Distribution Center in Memphis, TN. Specifically, ADI focused on quantifying the energy savings and project economics for EEMs associated with the existing refrigeration systems at the Tennessee facility.

Energy Efficiency Tennessee

Energy Efficiency Food Industry

Lifetime Savings: \$1,013,159

Total Electric Savings:  
11,332,895 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

## UNIQUE VALUE TO CUSTOMER

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

Kroger Distribution Center is a single building warehouse of approximately 220,000 square feet of refrigerated space. The facility contains thirty-one evaporator fan coils, two evaporative condensers, and one engine room containing seven compressors.

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 recommended EEMs including installing variable frequency drives (VFDs) on evaporator and condenser fan motors, installing the new Logix RCS on the C-4 compressor and installing a dedicated Freon air-cooled refrigeration system for the ice cream freezer. In addition, ADI Energy recommended the installation of new master refrigeration system controls.

# The Kroger Company Kroger Distribution Center Memphis, Tennessee

