

Case Study

Dollar Tree Distribution Center

Smart energy design makes every dollar go further.

Overview

With over 15,000 stores and 24 warehouses across the U.S., Dollar Tree's namesake low prices have proven a successful business model for the discount variety store. For their new 2 million sq. ft. distribution center, Dollar Tree partnered with Evergy to develop a comprehensive energy-efficient lighting strategy. The result of the integrated, collaborative effort is one of Evergy's most impressive and ambitious energy savings project to date.

"We are always looking at solutions to help reduce the energy demand and increase the life cycle of our assets. We were very happy with the support and engagement we had with the project."

Kieran Ryan

Director of logistic asset management

Project

Early in the pre-design stages, Dollar Tree's logistics team met with Evergy and partners to discuss design options and plan for energy-efficient lighting. By selecting code-exceeding LED fixtures and lighting controls, the project was able to qualify for significant financial incentive through Evergy's Business Energy Savings Program.

Additional upgrades boosted the facility's efficiency even further. Because only around 25 percent of the warehouse is occupied at one time, optimizing the lighting system with occupancy sensors was an easy choice. Aeronautically engineered fans were also chosen to enhance workplace comfort while consuming half the energy of typical fans.



**Optimized
lighting
system**



**Aeronautically
engineered
fans**

By the Numbers

Facility type:

Distribution center

Facility size:

2 million sq. ft.

Energy-saving measures:

LED fixtures

Lighting controls

Estimate annual electric savings:

\$490,682

Annual energy savings:

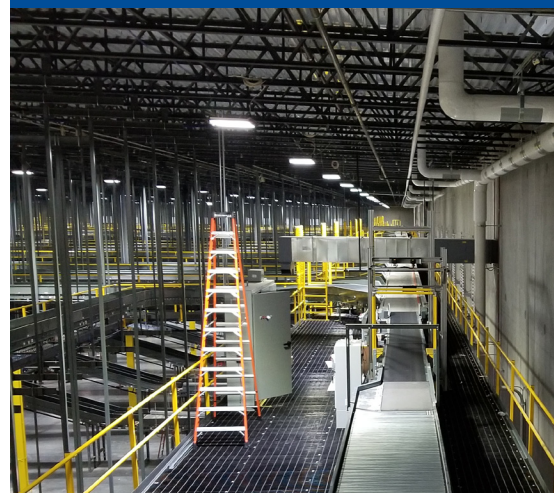
6,441,144 kWh

Energy incentives:

\$353,863

Project payback before incentive:

2.39 years



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Results

All told, the new facility is saving nearly half a million dollars in avoided energy costs each year. Together with \$353,863 in Evergy incentives, the project is on course to pay for itself in just over two years. Ryan said the energy and operational cost savings, longer equipment life cycles and reduced employee turnover rate all contribute to the company's core mission to keep variety high and prices low.

\$353,863

in Evergy incentives

"The benefit of working on sustainability projects is the payback in environmental savings and profit and loss improvements. This allows us to sustain a \$1 price point for all items in the store for our customers."

Kieran Ryan

Director of logistic asset management

GET STARTED SAVING

Join Dollar General and thousands of other businesses saving money and energy by utilizing Evergy Incentives. Contact your preferred contractor, Trade Ally or business development representative below, call (866) 847-5228 or email businessrebates@evergy.com for more information on all available incentives.

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