



# Häfele America Co.

## Sustainable Design



### ■ Introduction

In 2008, Tech Go Green performed a Sustainability Design on Häfele's Los Angeles-Torrance distribution center to reduce consumption, increase environmental awareness, and promote renewable practices. The audit consisted of an analysis of utility bills, a walkthrough of the facilities, and a survey administered to all end-users.

### ■ Overview

The Häfele Corporation is the largest hardware distributor in the United States. Their motto is "Finding Better Ways," and the application of this maxim to the many different facets within the organization has allowed Häfele to become a strong leader in today's world marketplace.

One such innovation of this motto is the development of Häfele's Environmental Stewardship Initiative which seeks to implement environmentally friendly measures company-wide in order to reduce the impact of its organization. Recognizing this effort, Tech Go Green assisted in carrying out this initiative locally at the Häfele Los Angeles-Torrance distribution center through a Sustainability Design.

The Sustainability Design identifies energy efficient recommendations with applicable utility rebates that yield in an annual savings of up to \$13,900.00. Recommendations were categorized based on the complexity of technical integration, allowing Häfele to adapt the Sustainability Design based on their own needs and resources

	Savings
Energy Conservation	114,512
268,448	53
1,896	88
268	

*Through the implementation of recommendations within the design, Häfele will see a reduction in their energy usage by nearly 25% and saved 39,600 gallons a year; resulting in a **annual carbon footprint reduction of nearly 88 tons of CO2.***



## ■ Design

The design is divided into three categories to provide Häfele with greater operational flexibility with a timeline of implementation. Each of the recommendations is supported with the initial investment cost (including services and installation estimates from local installers), return on investment, and payback period.

To help Häfele understand the impact of each recommendation, the design also includes the annual energy savings, cost reduction, and CO2 reduction.

### Category 1

*Involves practically no cost investment and without any disruption to building operation*

### Category 2

*Involves in-house installation*

### Category 3

*Involves outsource installation*

### **Incentives**

Applying the appropriate incentives and rebates from LADWP's programs, Häfele was able to see a reduction in the initial investment by nearly 25%. These rebates were identified by our specialists and accounted for in the description of each recommendation.

### **Customization**

All recommendations were tailored to the specifics of Häfele. In the case of the conference room, LED and CFL alternatives were not considered because of their application. The existing halogen bulbs were more effective in ability to dim and had a better color rendition for product showcasing and presentations. In its place, more efficient Halogen bulbs were recommended, maintaining the purpose of the current light fixture.



### **Implementation Plan**

Tech Go Green will assist Häfele in the implementation of all recommendations to prevent any of their current operations from being interrupted. In the report, a diagram of the facilities has been color coded by region indicating location of recommendations. This ensures a well coordinated and documented execution of design.

