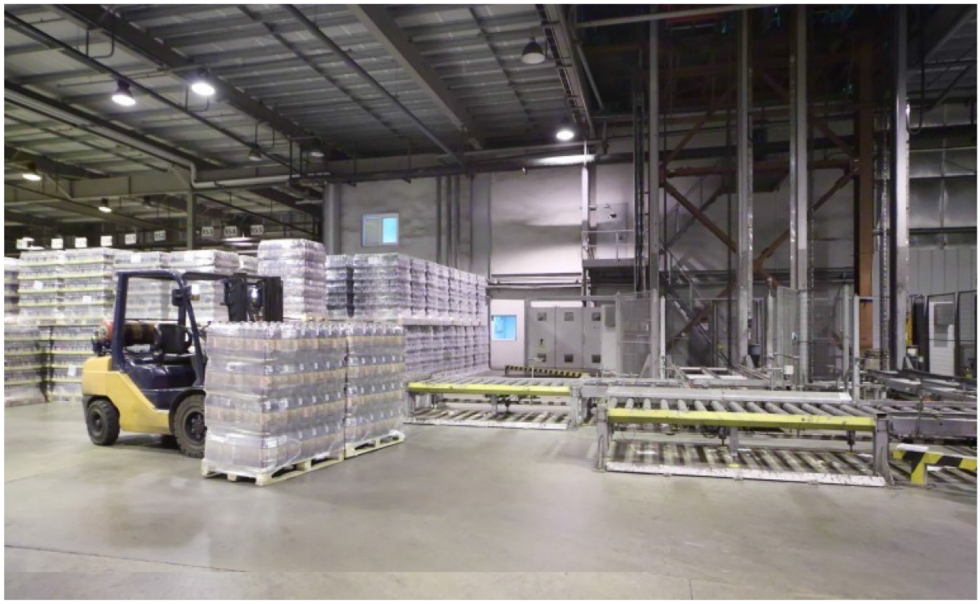
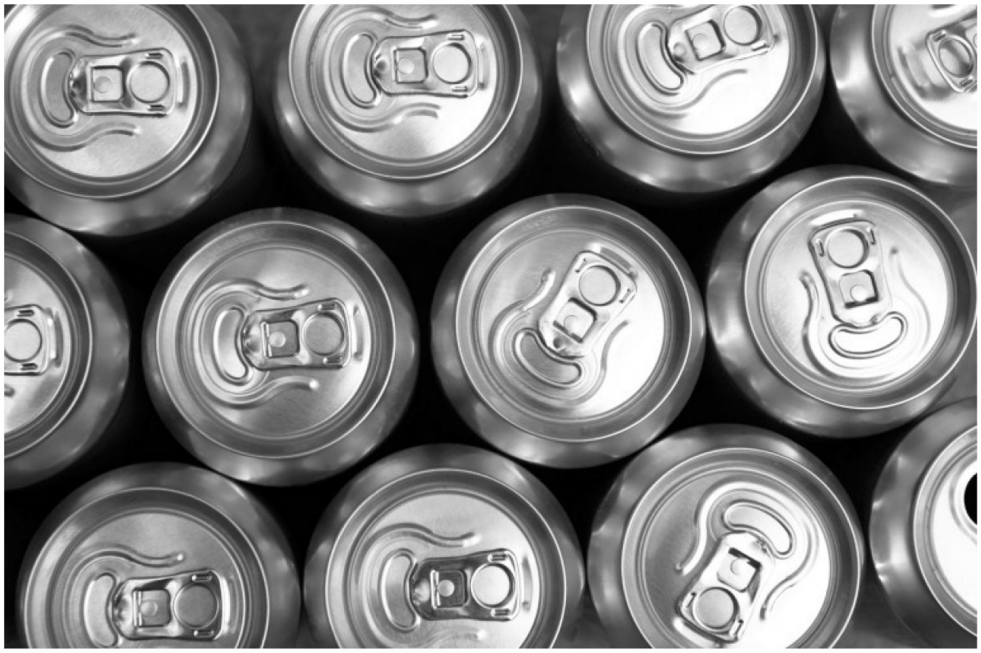
Metal Container Corporation: Windsor, CO





PROJECT DESCRIPTION

Client: Metal Container Corporation
Project: Production & Warehouse HVAC Systems Upgrade
Floor Area: 185,000 sf
Construction Schedule: 10 months

PROJECT APPROACH

Design/Build

ROLE

Prime Contractor (direct to owner)
Full-time on-site Project Manager
Managed Subcontractors, Designers
Engineer of Record

ENERGY SAVINGS

$315,000 per year
Three-year simple payback on installation, controls, equipment

PROJECT CHALLENGE/SOLUTION

The work environment (air quality and temperature) of the plant was unsatisfactory due to antiquated and inefficient HVAC systems.

Wiegmann performed an energy audit and engineered a new HVAC system using Tower Tech cooling towers to capitalize on the low wet bulb (dry air) conditions in Colorado. The long-lasting, low- maintenance fiberglass towers provide cool water, which was utilized in conjunction with indirect cooling coils in make-up air units to condition the plant. We reduced winter heating requirements by managing the extreme heat generated by the production process through strategically located make-up air units and exhaust fans.

This project resulted in annual energy savings and improved efficiencies in the production process due to uniform, consistent temperatures throughout the plant.