



Case Study:

Douglas Elbert Task Force

Background and Objectives

The Douglas Elbert Task Force is a nonprofit organization dedicated to serving economically disadvantaged individuals in Douglas and Elbert Counties, Colorado. In 2012, the organization sought to reduce its operating costs through the installation of upgrades to its 18,653-square-foot facility in Castle Rock.

Scope of Work

- Full energy audit to identify energy conservation measures (ECMs)
- Prioritize ECMs based on ROI, cost of measure and scope of work for open bidding by local contractors
- ICAST inspection of all ECMs installed, final invoicing and reporting

Top Priorities Identified

- Insulation in food storage area and west side of building
- Replace existing exterior lighting fixtures with efficient LEDs
- Replace upper south side office windows and east windows
- Upgrade HVAC rooftop systems to combine 6 units into one to improve efficiency
- Awning system on south side of building



Summary of Results

ICAST's installation of ECMs for the Douglas Elbert Taskforce generated the triple bottom line of economic, environmental and social benefits. With annual utility savings in excess of \$20,000 per year, the savings realized by the organization will help it reallocate funds towards its programs to assist the vulnerable community members that it serves. Reduction in electricity and natural gas consumption will also yield an environmental benefit by offsetting 656 metric tons of CO₂ emissions – the equivalent of taking 109 cars off the road. Additionally, spending on the project will produce a social benefit through the creation of 10 additional jobs for the local economy.



"Working with everyone at ICAST was such a positive experience for us that we'd love to work with you again... We're delighted with the outcome of the project!"

- **Suzanne Greene**, Executive Director

Customer:

Douglas Elbert Task Force
Castle Rock, CO

Facility Size

18,653 ft²

Year of Construction

1981

Work completed:

- Insulation
- Windows
- Lighting
- HVAC
- Awnings

Benefits:

- New exterior lighting fixtures
50% more efficient
- Offset 656 metric tons of CO₂ emissions.
- 10 local jobs created

Total Project Costs:

\$137,714

Total rebates, incentives, and grants:

\$1,675

Payback Period:

5 years

Average Annual Savings:

\$20,500

