

Jefferson County, Colorado Renewable/Energy Efficiency Project

FACTS

LOCATION

Golden, Colorado

PROJECT DATES

05/2009 – 03/2010 Audit
06/2010 – 04/2011 Construction

PROJECT SIZE

Buildings: 6 Sq. Ft.: 950,000

CONTRACT: ESPC

Amount: \$5,406,783
Type: EECBG Grants, \$1.1M Xcel
Energy Solar Rewards® and DSM
rebates, bond financing

TEAM

PROJECT DIRECTOR

Dennis Jacobs

ACCOUNT MANAGER

Leslie Larocque

PROJECT MANAGER

Dan Addink

ENERGY ENGINEER

Tim Scotland-Stewart

CONSTRUCTION MANAGER

Kip Kenyon

CONTACTS

PROGRAM MANAGER

Mr. Hilary Messa
Jefferson County
700 Jefferson County Parkway,
Suite 300
Golden, CO 80401
303.271.5030
hnessa@co.jefferson.co.us

SPECIAL PROJECTS COORDINATOR

Wade Yates
Address as above
303.271.5018
w Yates@co.jefferson.co.us



PROJECT DETAILS

Jefferson County is one of Colorado's largest counties, with a population of more than half a million and territory that spans the Denver metro area's west side. McKinstry assisted the County to prepare its Energy Efficiency and Conservation Strategy (EECS) to be awarded \$2.2 million in ARRA (EECBG) grants. McKinstry conducted a thorough Technical Energy Audit and identified several renewable and energy efficient projects to aid the County in reaching its goals. The County selected the following sub-projects for implementation:

1. Solar thermal system to provide year-round hot water to restrooms, showers, and kitchen and laundry facilities for the Jefferson County Detention Center.
2. Five separate solar photovoltaic (PV) systems totaling 335kW at the Laramie Building, Central Shops, Jefferson County Airport, Jefferson County Fairgrounds, and the Evergreen Shop.
3. Solar PV/wind-powered parking lot lights.
4. Solar demo project: two small scale wind turbines and a small scale solar PV system at the Courts and Administration building.
5. Lighting and lighting control retrofits.

McKinstry is also providing a public outreach component to this project through the installation of public kiosks at the Courts and Administration Building in order to educate residents and staff about renewable energy and the County's efforts.

Results

First year savings for these measures is guaranteed at \$400,000. The County has seen a consistent drop in electricity consumption of 30-35% since the installation of the conservation measures.