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
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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.
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.