



**Huerfano County
100% IGA - Energy Conservation Measures
All Measures**



Energy Conservation Measure (ECM) Name	Facility	Energy Conservation Measure Description	County Priority (1, 2 or 3)	Construction Cost*	Annual Utility Savings	Annual CO2 Savings (Metric Tons)	Annual Operational & Maintenance Savings**	Total Annual Savings	Estimated Utility Rebate***	Net Financed Cost (with Grants & Incentives)	Simple Payback (SPB)
Energy Conservation Measures that Self-fund (E)											
04.01 Network Programmable Thermostat	DAO	Install programmable thermostat that can be accessed remotely over the internet to provide for central scheduling, monitoring and trouble-shooting.	1	\$1,909	\$159	2	\$0	\$159	\$0	\$1,909	12.0
04.02 Seasonal Temperature Setback	OJM	Reduce energy use by implementing an aggressive temperature setback (keep above freezing) during times of the year that the museum is not open.	1	0	\$14	0	\$0	\$14	\$0	\$0	n/a
04.03 Weekend Temperature Setback	JUD	Re-program HVAC controls to set back space temperatures during the weekends.	1	\$0	\$2,317	13	\$0	\$2,317	\$0	\$0	n/a
09.01 LED Lighting Upgrades	CDL, DAO, FAB, FOT, GCC, GRBG, GW1, GW2, HC4H, LEC, LVRB, OJM, SPA, WCC, WCO, WRBS, WSS, WTS, WWTP	Replace existing non-LED lamps/ fixtures with new LED lamps/ fixtures to reduce energy and O&M costs.	1	\$450,493	\$22,181	107	\$4,417	\$26,598	(\$9,554)	\$440,939	16.6
10.01 Solar Photovoltaic Systems	JUD, LEC, WSS, WCC	25 kW roof-mounted solar photovoltaic systems for WCC, LEC and JUD 12.3 kW System for WSS. Includes electrical upgrade at WSS	1	\$421,939	\$24,250	111	\$0	\$24,250	\$0	\$421,939	17.4
Energy Conservation Measures that may Require Additional Funding to Fall within Target Payback (E+C)											
04.05 Update/ Repair Trane Controls	WCO	Upgrade/ repair existing Building Automation System (BAS) controls on HVAC system and update to best in class control sequences to optimize energy use, improve comfort and reduce O&M time.	1	\$17,103	\$1,292	8	\$332	\$1,624	\$0	\$17,103	10.5
18.01 Domestic Water Upgrades	DAO, FOT, LEC, OJM, WCC, WCO, WRBS, WSS, WTS	Reduce water use through repair and recommissioning of flushometers in existing toilets and urinals or replace with low flow fixtures. Install vandal resistant flow restriction devices on faucets.	1	\$70,549	\$1,857	2	\$0	\$1,857	\$0	\$70,549	38.0
Facility Improvement Measures that Are Primarily Capital in Nature (C)											
01.03 High Efficiency Furnace	OJM, WRBS	Furnace has reached ASHRAE life expectancy. Replace with a new high efficiency furnace to improve reliability and reduce energy use.	1	\$77,377	\$1,282	3	\$80	\$1,362	\$0	\$77,377	CAPITAL
01.04 Remove Electric Unit Heater	GW1	Electric unit heater in space has reached ASHRAE end-of-life and is currently a safety hazard (arcs when energized). Demo unit heater and replace with outlet for portable electric heater.	1	\$1,025	\$0	0	\$0	\$0	\$0	\$1,025	CAPITAL
03.01 Replace Rooftop Units	WCC, WSS	Rooftop Units have reached their ASHRAE life expectancy. Replace with new rooftop units to improve occupant comfort and O&M costs.	2	\$408,797	\$586	(2)	\$1,328	\$1,914	\$0	\$408,797	CAPITAL
03.02 Refurbish Air Handling Units	LEC	The existing air handling units need to be repaired/ refurbished including; repair flex connections, repair evaporative cooling sections, replace media and clean coils to effectively heat and cool the Law Enforcement Center.	2	\$115,356	\$0	0	\$431	\$431	\$0	\$115,356	CAPITAL
09.02 Exterior LED Field Lighting Upgrades	BPA, GCC, HC4H	Replace existing non-LED field lighting with new LED field lighting to improve light levels, color rendering and reduce energy and O&M costs.	3	\$154,391	\$718	4	\$137	\$855	(\$6,178)	\$148,213	CAPITAL
11.01-CPB Repair Electrical Service	CPB	Replace existing electric panel and breakers and provide new electrical service to it. Existing compressor and pump starters to be abandoned in place.	1	\$61,233	\$0	0	\$0	\$0	\$0	\$61,233	CAPITAL
13.01 Air Sealing and Weather-Stripping	CDL, CMB, CPB, FAB, GRBG, LEC, LVRB, OJM, WCC, WCO, WRBS, WSS	Add weather stripping and spray foam to better seal building envelope, reduce infiltration, reduce energy use and improve occupant comfort.	2	\$129,644	\$2,007	13	\$836	\$2,843	\$0	\$129,644	CAPITAL
13.05 Gutter Repair	WCO	Clean out two south-side gutter down-spouts, scope and snake line to storm drain. Includes allowance for excavation and repair of underground portion of drains. Add heat trace to prevent freezing.	1	\$36,546	(\$50)	0	\$667	\$617	\$0	\$36,546	CAPITAL
13.06-Insulation & Fans	HC4H	Add roof insulation and three 14-ft ceiling-mounted fans	2	\$99,120	\$0	0	\$0	\$0	\$0	\$99,120	CAPITAL
20.02 Design Standards Criteria	CMB, CPB	Provide schematic design for Cuchara Pump House and Maintenance Building. Would need county to provide direction on future use.	2	\$9,478	\$0	0	\$0	\$0	\$0	\$9,478	CAPITAL
20.03 Permanent Ladder	WCC	Install permanent ladder to allow for safer roof access.	1	\$30,229	\$0	0	\$0	\$0	\$0	\$30,229	CAPITAL
20.04 Roof Hatch Safety Rails	LEC	Add safety rails around rooftop hatch of Law Enforcement Center.	1	\$8,119	\$0	0	\$0	\$0	\$0	\$8,119	CAPITAL
20.05 Mud-jacking	WCC	Add piers, under-pinning and mud-jack areas that have settled. Repair cosmetic damage. Grade grassy area near problematic areas. Does not include gym floor repair	1	\$180,646	\$0	0	\$0	\$0	\$0	\$180,646	CAPITAL
22.01 PowerED	WCO, JUD, LEC, WCC	powerED engagement program for the building occupants and facilities staff at four facilities: Courthouse, Judicial Building, Law Enforcement Center and Community Center. Includes promoting the project (press releases, ribbon cutting ceremonies, etc.) and Reveal Dashboard for 3 years to show baseline utility use, EUIs, FCA metrics and project energy savings.	1	\$33,312	\$0	0	\$0	\$0	\$0	\$33,312	CAPITAL
22.02 Facility Condition Assessment	MULTIPLE FACILITIES	Facility Condition Assessments focusing on mechanical, electrical, plumbing and building envelope systems. Includes code evaluation and side-walk assessment at Walsenburg Community Center only. Excludes Judicial Building, Radio Towers and Water Treatment facilities in Gardner.	1	\$22,789	\$0	0	\$0	\$0	\$0	\$22,789	CAPITAL
										DOLA Grant	\$ (750,000)
										County Capital Contribution	\$ (150,000)
										Inflation Reduction Act Direct Payment	\$ (112,386)
Project totals				\$2,330,056	\$56,613	259	\$8,228	\$64,841	\$ (15,732)	\$ 1,301,938	20.1
										Contingency	\$103,765
										Total Cost With Contingency	\$ 1,405,703

NOTES:
GCC= Gardner Community Center, OJM= Old Jail House Museum, JUD= Judicial Building, FAB= Fire/ Ambulance, WRBS= Walsenburg Road and Bridge Shop, GW1= Gardner Well 1, GW2= Gardner Well 2, FOT= Fox Theater, SPA= Spanish Peaks Airfield- Airport Terminal, WCC= Walsenburg Community Center, WTS= Waste Transfer Station, WSS= Social Services, LEC= Law Enforcement Center, DAO= District Attorney's Office, HC4H= HCH4 Building, LVRB= La Veta Road and Bridge Shop, WCO= Walsenburg Courthouse, GRBG= Gardner Road and Bridge Garage, BPA= Ball Park, CDL= Cuchara Day Lodge, CMB= Cuchara Maintenance Building, CPB= Cuchara Pump Building, WWTP= Waste Water Treatment Plant

* Since design, project management and other project related costs are distributed among the ECMs, the project cost will not go up or down by exactly the amounts shown here if a ECM or ECMs are removed from the final contracted scope of work.
** Incentives are contingent on final approval from providers. Amounts shown are for reference only.
*** CAP depicts a capital measure or project related costs which are not driven by utility and/or operational savings.

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