



City of Durango Facility Improvement Measure (FIM) List (Partial Solar Scope)



FIM Name	Facility	FIM Description	Construction Cost	Construction Cost Net of IRA	Annual Utility Savings	Annual CO2 Savings (Tons)	Annual Operational Savings	Total Annual Savings	Simple Payback (Years)	Estimated Utility Rebate	Net Customer Cost (with Incentives)	Simple Payback (SPB) (with Incentives)
03.02 - DCB HVAC Upgrade - Variable Refrigerant Flow System	Durango Carnegie Hall	Upgrade the ageing HVAC system to Variable Refrigerant Flow to provide optimized and flexible ventilation to the spaces. Install new Direct Digital Controls to help optimize operation of the new system.	\$823,272	\$823,272	\$603	15	\$0	\$603	Capital	\$45,000	\$778,272	Capital
03.04 - DCH Rooftop Unit Replacement	Durango City Hall	Replace the three oldest RTUs on the City Hall with new energy efficient rooftop units. Add the new units into the existing building automation system.	\$104,063	\$104,063	\$1,102	10	\$0	\$1,102	Capital	\$0	\$104,063	Capital
04.02 - DCH Controls Upgrades	Durango City Hall	Install direct digital controls to on the remaining rooftop units to gain energy and operational efficiencies.	\$50,746	\$50,746	\$0	0	\$0	\$0	0.0	\$0	\$50,746	0.0
04.03 - DPSs Controls Upgrades	Durango Police Substation	Integrate the existing building level iVu automation system into the web-based building automation system for remote access, control and troubleshooting.	\$8,834	\$8,834	\$0	0	\$0	\$0	0.0	\$0	\$8,834	0.0
09.04 - DWTP LED Lighting Upgrades	Durango Water Treatment Plant	Replace/retrofit remaining non-LED fixtures, wall sconces, and hi-bay fixtures with new LED.	\$15,527	\$15,527	\$840	5	\$72	\$912	17.0	\$547	\$14,980	16.4
09.05 - DTC LED Lighting Upgrades	Durango Transit Center	Replace/retrofit remaining non-LED fixtures, wall sconces, and hi-bay fixtures with new LED.	\$67,734	\$67,734	\$3,571	30	\$635	\$4,206	16.1	\$1,917	\$65,817	15.6
09.07 - DR LED Lighting Upgrades	Durango Recycle Center	Replace/retrofit remaining non-LED fixtures, wall sconces, and hi-bay fixtures with new LED.	\$29,992	\$29,992	\$2,938	17	\$152	\$3,090	9.7	\$2,655	\$27,337	8.8
09.08 - DPSs LED Lighting Upgrades	Durango Police Substation	Replace/retrofit remaining non-LED fixtures, wall sconces, and hi-bay fixtures with new LED.	\$16,061	\$16,061	\$964	5	\$248	\$1,212	13.3	\$344	\$15,717	13.0
09.11 - DGS LED Lighting Upgrades	Durango General Services	Replace/retrofit remaining non-LED fixtures, wall sconces, and hi-bay fixtures with new LED.	\$97,878	\$97,878	\$7,507	41	\$464	\$7,971	12.3	\$5,793	\$92,085	11.6
09.12 - DCH LED Lighting Upgrades	Durango City Hall	Replace/retrofit remaining non-LED fixtures, wall sconces, and hi-bay fixtures with new LED.	\$21,691	\$21,691	\$3,621	22	\$260	\$3,881	5.6	\$874	\$20,817	5.4
09.13 - DCC LED Lighting Upgrades	Durango Communications Center	Replace/retrofit remaining non-LED fixtures, wall sconces, and hi-bay fixtures with new LED.	\$25,000	\$25,000	\$3,193	22	\$384	\$3,577	7.0	\$1,355	\$23,645	6.6
09.15 - DCB LED Lighting Upgrades	Durango Carnegie Hall	Replace/retrofit remaining non-LED fixtures, wall sconces, and hi-bay fixtures with new LED.	\$38,041	\$38,041	\$4,761	22	\$173	\$4,934	7.7	\$1,003	\$37,038	7.5
09.17 - DP Parks Lighting	Durango Parks	Replace non-LED lighting at the parks and Animus river pathway lights - not including athletic field lighting.	\$137,423	\$137,423	\$20,549	104	\$1,775	\$22,324	6.2	\$3,415	\$134,008	6.0
09.18 - DRP LED Lighting Upgrades	Rotary Park	Replace lighting at park and in parking lot of park as applicable	\$2,769	\$2,769	\$696	4	\$12	\$708	3.9	\$104	\$2,665	3.8
09.19 - SSP LED Lighting Upgrades	Schneider Skate Park	Replace lighting at park and in parking lot of park as applicable	\$6,241	\$6,241	\$433	2	\$36	\$469	13.3	\$1,000	\$5,241	11.2
10.02 - DCHIR Solar PV	Durango Chapman Hill	Install a (102kWdc) roof-mounted solar array to minimize purchased electricity at the facility.	\$303,351	\$225,996	\$12,941	98	\$0	\$12,941	17.5	\$71	\$225,925	17.5
10.06 - DRC Solar PV	Durango Recreation Center	Install a (244.8kWdc) roof-mounted solar array to minimize purchased electricity at the facility.	\$708,646	\$527,941	\$29,830	263	\$0	\$29,830	17.7	\$191	\$527,750	17.7
10.09 - DWTP Solar PV	Durango Water Treatment Plant	Install a (149.6kWdc) ground-mounted solar array to minimize purchased electricity at the facility.	\$527,396	\$392,910	\$28,959	189	\$0	\$28,959	13.6	\$137	\$392,773	13.6
18.02 - DCB Water Conservation	Durango Carnegie Hall	Reduce water use through valve recommissioning and rebuild. Install low flow aerators and shower heads on applicable sinks and showers.	\$8,390	\$8,390	\$286	0	\$35	\$321	Capital	\$0	\$8,390	Capital
18.04 - DCC Water Conservation	Durango Communications Center	Reduce water use through valve recommissioning and rebuild. Install low flow aerators and shower heads on applicable sinks and showers.	\$7,381	\$7,381	\$550	0	\$42	\$592	12.5	\$0	\$7,381	12.5
18.05 - DCH Water Conservation	Durango City Hall	Reduce water use through valve recommissioning and rebuild. Install low flow aerators and shower heads on applicable sinks and showers.	\$7,356	\$7,356	\$290	0	\$32	\$322	22.8	\$0	\$7,356	22.8
18.06 - DGS Water Conservation	Durango General Services	Reduce water use through valve recommissioning and rebuild. Install low flow aerators and shower heads on applicable sinks and showers.	\$3,133	\$3,133	\$546	0	\$15	\$561	5.6	\$0	\$3,133	5.6
18.09 - DPSs Water Conservation	Durango Police Substation	Reduce water use through valve recommissioning and rebuild. Install low flow aerators and shower heads on applicable sinks and showers.	\$5,040	\$5,040	\$38	0	\$29	\$67	Capital	\$0	\$5,040	Capital
18.11 - DR Water Conservation	Durango Recycle Center	Reduce water use through valve recommissioning and rebuild. Install low flow aerators and shower heads on applicable sinks and showers.	\$1,493	\$1,493	\$158	0	\$8	\$166	9.0	\$0	\$1,493	9.0
18.13 - DTC Water Conservation	Durango Transit Center	Reduce water use through valve recommissioning and rebuild. Install low flow aerators and shower heads on applicable sinks and showers.	\$11,853	\$11,853	\$49	0	\$58	\$107	Capital	\$0	\$11,853	Capital
Santa Rita Energy Audit	Santa Rita WRF	Energy audit of Santa Rita	\$20,000	\$20,000					n/a		\$20,000	
20.01 - powerED	All Buildings	Perform behavioral and additional operational based energy conservation measures.	\$480,000	\$433,000	\$64,980	0	\$0	\$64,980	6.7	\$0	\$433,000	6.7
		Total of All Measures	\$3,529,311	\$3,089,766	\$189,405	850	\$4,430	\$193,835	15.9	\$64,406	\$3,025,360	15.6
		Contingency	\$191,481	\$191,481								
		Total Project Cost	\$3,720,792	\$3,281,247								
		Material Allowance for Escalation (City Contingency)	\$176,466									
		DOLA Grant	\$564,690	\$564,690								
		Total Project Cost = Total of All Measures - DOLA Grant + Contingency	\$3,332,568	\$2,716,557	\$189,405	850	\$4,430	\$193,835	14.3	\$64,406	\$2,652,151	13.7