Retrofit Business Case Analysis

Parkland County Centre, County Services Building and Tomahawk Workshop

Potential measures and facilities combined as per discussion

Retrofit Details



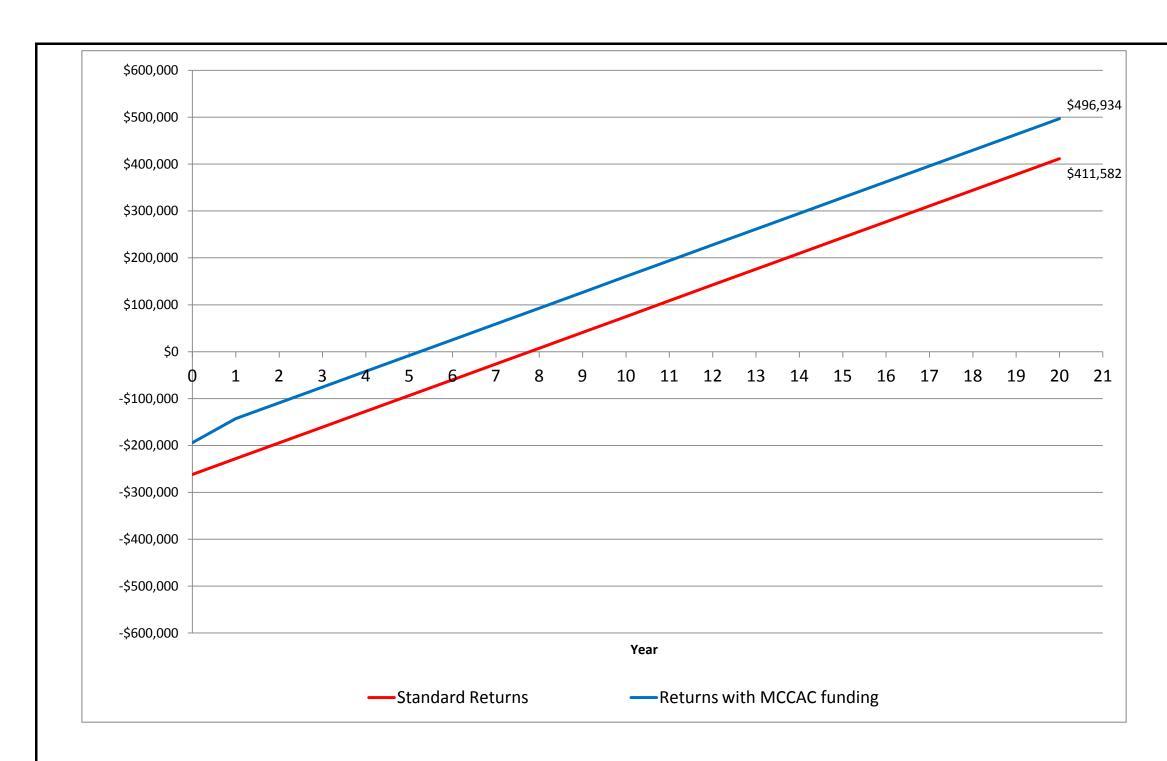
	Retront Details			MCCAC		Simple	Energy	GHG	
			Annual	Contributi	Return on	Payback	Consumptio	Reduction	
	Retrofit Option	Cost (\$)	savings(\$)	on (\$)	Investment (RoI,%)	(years)	n Reduction	(tCO2e)	GHG Bonus (\$)
Tomahawk Workshop	Weather-Stripping / Seal	\$878	\$228		26%	3.9	3.2%	2.2	198
Tor	Lighting Retrofit	\$24,358	\$2,193		9%	11.1	5.1%	12.9	1161
	Sub-Total	\$ 25,236	\$ 2,421		9.6%	10.4	8.3%	15.1	1,359
County Service Bldg	Building Management (Automation) System (BMS)	\$173,000	\$19,827		11%	8.7	18.7	121.2	10,908
ıty Serv	Weather-Stripping / Seal	\$2,244	\$918		41%	2.4	0.9%	5.6	504
Cour	Lighting Retrofit Sub-Total	\$43,450 \$218,694	\$6,450 \$27,195		15% 12%	6.7 8.0	1.5% 22.8%	34.1 160.9	3,069 14,481
ā	New High Efficiency Motors & Variable Frequency Drives (VFD) for P1 &P3	\$14,000	\$2,069		15%	6.8	2.3%	10.5	945
County Centre	Weather-Stripping / Seal	\$744	\$355		48%	2.1	0.6%	1.9	171
	Lighting Retrofit	\$3,124	\$1,629		52%	1.9	0.7%	8.0	720
	Sub-Total		\$4,053		23%	8.4	1.3%	20.4	891
Project Grand Totals		\$261,798	\$33,669	\$ 50,000	12.9%	7.8	32.4%	196	17,676

Assumptions:

- 1) Avoided Costs are not included
- 2) Equipment replacement costs are not
- 3) Electricity = \$0.096/KWh
- 4) Natural Gas = \$5.18/GJ
- 5) No inflation applied to energy costs over

MCCAC Funding Impact			
MCCAC Rebate Funding	\$	50,000	
Potential GHG Bonus funding	\$	17,676	
Total potential MCCAC funding	\$	67,676	
Project Cost with MCCAC Funding	\$	194,122	
% of Project Cost Covered by MCCAC	25.9%		
ROI with MCCAC Funding	17.3%		
Payback with MCCAC funding (Yr)		5.8	

+4.5% -2.0 years



Note: The numbers stated here are the values calculated using estimated data and while they are belived to be reliable they can not be guaranteed and are intended for illustrative purposes only. Energy prices stated here are representative estimates meant for illustrative purposes only and may vary from market prices