

9 Appendix

9.1 10-years of the Solar being installed

This table shows the first 10 years of the solar panels installed. In these years the loan is still being repaid. Once the loan is repaid (year 10/2036) the savings will be fully realised by Council until the end of the panels life around year 25 (2051).

Year	0	1	2	3	4	5	6	7	8	9	10	Total
Total Loan Value	\$440,000	\$402,592	\$363,853	\$323,737	\$282,194	\$239,173	\$194,622	\$148,487	\$100,711	\$51,235	-\$0	
Annual Savings		\$92,421	\$97,966	\$103,844	\$110,074	\$116,679	\$123,680	\$131,100	\$138,966	\$147,304	\$156,143	\$1,218,177
Annual Loan Repayments		\$37,408	\$38,739	\$40,116	\$41,543	\$43,021	\$44,551	\$46,135	\$47,776	\$49,476	\$51,235	\$440,000
Annual Interest Payments	3.50%	\$14,804	\$13,473	\$12,095	\$10,669	\$9,191	\$7,661	\$6,076	\$4,435	\$2,736	\$977	\$82,117
Surplus		\$40,209	\$45,754	\$51,632	\$57,863	\$64,467	\$71,468	\$78,889	\$86,755	\$95,093	\$103,931	\$696,060

The above is an inflation adjusted (using the Berle figures) graph on the Councils projected repayments, interest payments, annual costs, savings and the resulting surplus.

9.2 Electricity savings over 15-years (2036-2051)

Year	Holiday Park	Taketake	Wharfside	Murupara Aquatic Centre	Murupara Service Centre	Total
2036	\$ 42,559	\$ 83,572	\$ 4,394	\$ 17,582	\$ 17,404	\$ 167,547
2037	\$ 45,112	\$ 88,586	\$ 4,658	\$ 18,637	\$ 18,448	\$ 177,479
2038	\$ 47,819	\$ 93,901	\$ 4,937	\$ 19,755	\$ 19,555	\$ 188,006
2039	\$ 50,688	\$ 99,535	\$ 5,234	\$ 20,940	\$ 20,729	\$ 199,166
2040	\$ 53,729	\$ 105,508	\$ 5,548	\$ 22,197	\$ 21,972	\$ 210,994
2041	\$ 56,953	\$ 111,838	\$ 5,881	\$ 23,529	\$ 23,291	\$ 223,532
2042	\$ 60,370	\$ 118,548	\$ 6,233	\$ 24,940	\$ 24,688	\$ 236,823
2043	\$ 63,993	\$ 125,661	\$ 6,607	\$ 26,437	\$ 26,169	\$ 250,911
2044	\$ 67,832	\$ 133,201	\$ 7,004	\$ 28,023	\$ 27,740	\$ 265,844
2045	\$ 71,902	\$ 141,193	\$ 7,424	\$ 29,704	\$ 29,404	\$ 281,673
2046	\$ 76,216	\$ 149,665	\$ 7,870	\$ 31,487	\$ 31,168	\$ 298,451
2047	\$ 80,789	\$ 158,644	\$ 8,342	\$ 33,376	\$ 33,038	\$ 316,237
2048	\$ 85,637	\$ 168,163	\$ 8,842	\$ 35,379	\$ 35,021	\$ 335,089
2049	\$ 90,775	\$ 178,253	\$ 9,373	\$ 37,501	\$ 37,122	\$ 355,073
2050	\$ 96,221	\$ 188,948	\$ 9,935	\$ 39,751	\$ 39,349	\$ 376,255
Total	\$ 990,597	\$ 1,945,217	\$ 102,282	\$ 409,239	\$ 405,100	\$ 3,883,079