

Energy Savings Cash Flow Model

⚠ Enter your values in the YELLOW input cells. All other cells calculate automatically.

INPUT ASSUMPTIONS (yellow cells are editable)

DC:AC Ratio	1:1.25	kWh / year	DC System Size (kW)	171.10	
Utility Rate (¢ / kWh)	9.500	cents per kWh	Annual kWh (I4 × Ratio × 1,000)	213,875	\$/watt → \$2.43
Annual Inflation Rate	3.0%	applied to rate & savings	Total Cost		
EMSA Cost / yr		EMSA Payment Escalator / yr	\$415,773		
Incentive / Rebate (\$)		applied in Year 1			
Analysis Period (years)	30	max 30 rows			
Start Calendar Year	2027				
kWh Degradation Rate (annual)	0.4%	applied to kWh each year			

A	B	C	D	E	F	G	H	I	J
Year Number	Calendar Year	EMS Payment (\$)	kWh Saved (w/ Degradation)	Utility Rate (¢/kWh)	Utility Inflation Factor	Dollars Saved (\$)	Incentive (\$)	Annual Cash Flow (\$)	Cumulative Cash Flow (\$)
1	2027	\$0	213,875	9.500	1.0000	\$20,318	\$4,705	\$25,023	\$25,023
2	2028	\$0	213,020	9.785	1.0300	\$20,844	\$4,705	\$25,549	\$50,573
3	2029	\$0	212,167	10.079	1.0609	\$21,383	\$4,705	\$26,089	\$76,661
4	2030	\$0	211,319	10.381	1.0927	\$21,937	\$4,705	\$26,642	\$103,303
5	2031	\$0	210,473	10.692	1.1255	\$22,505	\$4,705	\$27,210	\$130,513
6	2032	\$0	209,632	11.013	1.1593	\$23,087	\$4,705	\$27,792	\$158,305
7	2033	\$0	208,793	11.343	1.1941	\$23,684	\$4,705	\$28,390	\$186,695
8	2034	\$0	207,958	11.684	1.2299	\$24,297	\$4,705	\$29,003	\$215,698
9	2035	\$0	207,126	12.034	1.2668	\$24,926	\$4,705	\$29,631	\$245,329
10	2036	\$0	206,298	12.395	1.3048	\$25,571	\$4,705	\$30,277	\$275,606
11	2037	\$0	205,472	12.767	1.3439	\$26,233	\$4,705	\$26,233	\$301,839
12	2038	\$0	204,650	13.150	1.3842	\$26,912		\$26,912	\$328,751
13	2039	\$0	203,832	13.545	1.4258	\$27,608		\$27,608	\$356,359
14	2040	\$0	203,017	13.951	1.4685	\$28,323		\$28,323	\$384,682
15	2041	\$0	202,204	14.370	1.5126	\$29,056		\$29,056	\$413,738
16	2042	\$0	201,396	14.801	1.5580	\$29,808		\$29,808	\$443,546
17	2043	\$0	200,590	15.245	1.6047	\$30,579		\$30,579	\$474,125
18	2044	\$0	199,788	15.702	1.6528	\$31,371		\$31,371	\$505,496
19	2045	\$0	198,989	16.173	1.7024	\$32,183		\$32,183	\$537,679
20	2046	\$0	198,193	16.658	1.7535	\$33,016		\$33,016	\$570,694
21	2047	\$0	197,400	17.158	1.8061	\$33,870		\$33,870	\$604,564
22	2048	\$0	196,610	17.673	1.8603	\$34,747		\$34,747	\$639,311
23	2049	\$0	195,824	18.203	1.9161	\$35,646		\$35,646	\$674,957
24	2050	\$0	195,041	18.749	1.9736	\$36,568		\$36,568	\$711,525
25	2051	\$0	194,260	19.312	2.0328	\$37,515		\$37,515	\$749,040
26	2052	\$0	193,483	19.891	2.0938	\$38,486		\$38,486	\$787,525
27	2053	\$0	192,709	20.488	2.1566	\$39,482		\$39,482	\$827,007
28	2054	\$0	191,939	21.102	2.2213	\$40,503		\$40,503	\$867,510
29	2055	\$0	191,171	21.735	2.2879	\$41,552		\$41,552	\$909,062
30	2056	\$0	190,406	22.387	2.3566	\$42,627		\$42,627	\$951,689
TOTALS		\$0	6,057,633	15.066		\$904,636	\$47,053	\$951,689	\$951,689