

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)	100.30	
Utility Rate (¢ / kWh)	9.500	cents per kWh	Annual kWh (I4 × Ratio × 1,000)	125,375	\$/watt → \$2.95
Annual Inflation Rate	3.0%	applied to rate & savings	Total Cost		
EMSA Cost / yr		EMSA Payment Escalator / yr	\$295,885		
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 Year Number	B Calendar Year	C EMS Payment (\$)	D kWh Saved (w/ Degradation)	E Utility Rate (¢/kWh)	F Utility Inflation Factor	G Dollars Saved (\$)	H Incentive (\$)	I Annual Cash Flow (\$)	J Cumulative Cash Flow (\$)
1	2027	\$0	125,375	9.500	1.0000	\$11,911	\$2,758	\$14,669	\$14,669
2	2028	\$0	124,874	9.785	1.0300	\$12,219	\$2,758	\$14,977	\$29,646
3	2029	\$0	124,374	10.079	1.0609	\$12,535	\$2,758	\$15,293	\$44,939
4	2030	\$0	123,877	10.381	1.0927	\$12,860	\$2,758	\$15,618	\$60,557
5	2031	\$0	123,381	10.692	1.1255	\$13,192	\$2,758	\$15,951	\$76,508
6	2032	\$0	122,887	11.013	1.1593	\$13,534	\$2,758	\$16,292	\$92,800
7	2033	\$0	122,396	11.343	1.1941	\$13,884	\$2,758	\$16,642	\$109,442
8	2034	\$0	121,906	11.684	1.2299	\$14,243	\$2,758	\$17,002	\$126,443
9	2035	\$0	121,419	12.034	1.2668	\$14,612	\$2,758	\$17,370	\$143,814
10	2036	\$0	120,933	12.395	1.3048	\$14,990	\$2,758	\$17,748	\$161,562
11	2037	\$0	120,449	12.767	1.3439	\$15,378		\$15,378	\$176,940
12	2038	\$0	119,968	13.150	1.3842	\$15,776		\$15,776	\$192,716
13	2039	\$0	119,488	13.545	1.4258	\$16,184		\$16,184	\$208,900
14	2040	\$0	119,010	13.951	1.4685	\$16,603		\$16,603	\$225,503
15	2041	\$0	118,534	14.370	1.5126	\$17,033		\$17,033	\$242,536
16	2042	\$0	118,060	14.801	1.5580	\$17,474		\$17,474	\$260,010
17	2043	\$0	117,587	15.245	1.6047	\$17,926		\$17,926	\$277,936
18	2044	\$0	117,117	15.702	1.6528	\$18,390		\$18,390	\$296,325
19	2045	\$0	116,648	16.173	1.7024	\$18,866		\$18,866	\$315,191
20	2046	\$0	116,182	16.658	1.7535	\$19,354		\$19,354	\$334,545
21	2047	\$0	115,717	17.158	1.8061	\$19,855		\$19,855	\$354,400
22	2048	\$0	115,254	17.673	1.8603	\$20,369		\$20,369	\$374,768
23	2049	\$0	114,793	18.203	1.9161	\$20,896		\$20,896	\$395,664
24	2050	\$0	114,334	18.749	1.9736	\$21,437		\$21,437	\$417,101
25	2051	\$0	113,877	19.312	2.0328	\$21,991		\$21,991	\$439,092
26	2052	\$0	113,421	19.891	2.0938	\$22,560		\$22,560	\$461,653
27	2053	\$0	112,968	20.488	2.1566	\$23,144		\$23,144	\$484,797
28	2054	\$0	112,516	21.102	2.2213	\$23,743		\$23,743	\$508,540
29	2055	\$0	112,066	21.735	2.2879	\$24,358		\$24,358	\$532,898
30	2056	\$0	111,617	22.387	2.3566	\$24,988		\$24,988	\$557,886
TOTALS		\$0	3,551,026	15.066		\$530,304	\$27,583	\$557,886	\$557,886