

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)	519.20	
Utility Rate (¢ / kWh)	9.500	cents per kWh	Annual kWh (I4 × Ratio × 1,000)	649,000	\$/watt → \$2.17
Annual Inflation Rate	3.0%	applied to rate & savings	Total Cost		
EMSA Cost / yr		EMSA Payment Escalator / yr	\$1,126,664		
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	649,000	9.500	1.0000	\$61,655	\$14,278	\$75,933	\$75,933
2	2028	\$0	646,404	9.785	1.0300	\$63,251	\$14,278	\$77,529	\$153,462
3	2029	\$0	643,818	10.079	1.0609	\$64,888	\$14,278	\$79,166	\$232,627
4	2030	\$0	641,243	10.381	1.0927	\$66,567	\$14,278	\$80,845	\$313,472
5	2031	\$0	638,678	10.692	1.1255	\$68,290	\$14,278	\$82,568	\$396,040
6	2032	\$0	636,123	11.013	1.1593	\$70,057	\$14,278	\$84,335	\$480,375
7	2033	\$0	633,579	11.343	1.1941	\$71,870	\$14,278	\$86,148	\$566,523
8	2034	\$0	631,045	11.684	1.2299	\$73,730	\$14,278	\$88,008	\$654,531
9	2035	\$0	628,520	12.034	1.2668	\$75,638	\$14,278	\$89,916	\$744,447
10	2036	\$0	626,006	12.395	1.3048	\$77,596	\$14,278	\$91,874	\$836,320
11	2037	\$0	623,502	12.767	1.3439	\$79,604		\$79,604	\$915,924
12	2038	\$0	621,008	13.150	1.3842	\$81,664		\$81,664	\$997,588
13	2039	\$0	618,524	13.545	1.4258	\$83,777		\$83,777	\$1,081,366
14	2040	\$0	616,050	13.951	1.4685	\$85,946		\$85,946	\$1,167,311
15	2041	\$0	613,586	14.370	1.5126	\$88,170		\$88,170	\$1,255,481
16	2042	\$0	611,132	14.801	1.5580	\$90,452		\$90,452	\$1,345,933
17	2043	\$0	608,687	15.245	1.6047	\$92,793		\$92,793	\$1,438,725
18	2044	\$0	606,252	15.702	1.6528	\$95,194		\$95,194	\$1,533,919
19	2045	\$0	603,827	16.173	1.7024	\$97,658		\$97,658	\$1,631,577
20	2046	\$0	601,412	16.658	1.7535	\$100,185		\$100,185	\$1,731,762
21	2047	\$0	599,006	17.158	1.8061	\$102,778		\$102,778	\$1,834,540
22	2048	\$0	596,610	17.673	1.8603	\$105,438		\$105,438	\$1,939,978
23	2049	\$0	594,224	18.203	1.9161	\$108,166		\$108,166	\$2,048,144
24	2050	\$0	591,847	18.749	1.9736	\$110,966		\$110,966	\$2,159,110
25	2051	\$0	589,480	19.312	2.0328	\$113,838		\$113,838	\$2,272,948
26	2052	\$0	587,122	19.891	2.0938	\$116,784		\$116,784	\$2,389,731
27	2053	\$0	584,773	20.488	2.1566	\$119,806		\$119,806	\$2,509,538
28	2054	\$0	582,434	21.102	2.2213	\$122,907		\$122,907	\$2,632,444
29	2055	\$0	580,104	21.735	2.2879	\$126,088		\$126,088	\$2,758,532
30	2056	\$0	577,784	22.387	2.3566	\$129,351		\$129,351	\$2,887,882
TOTALS		\$0	18,381,784	15.066		\$2,745,102	\$142,780	\$2,887,882	\$2,887,882