Solar System DC size (maximum DC output from panels)	13.485	kW	(31) Hanwha Q.Cells, Q.TRON BLK, M-G2+ SERIES, 435W
Solar System AC size (maximum AC output from inverters)	11.300	kW	(31) EnPhase Energy, IQ8AC-72-M-US
Maximum Energy Production - Annual (theoretical max)	98,988.000	kWh	(if the sun shone 24/7 at the ideal angle for the panels with no degredation this would be the annual production)
Energy Production - Annual year 1 predicted total	14,200.000	kWh	(Greenspark Solar predicts this annual amount of production)
Energy Production - Annual year 30 predicted total	12,902.000	kWh	(Greenspark Solar predicts this annual amount of production after 30 years)
Energy Production - Daily (predicted average year 1)	38.904	kWh	(Greenspark Solar predicts this daily amount of production, averaged over the course of the year in year 1)
Energy Production - Daily (predicted average year 30)	35.348	kWh	(Greenspark Solar predicts this daily amount of production, averaged over the course of the year in year 30)
Predicted Capacity Factor - year 1	14.345%		(ratio of predicted energy generation to theoretical maximum possible energy generation in year 1)
Predicted Capacity Factor - year 30	13.034%		(ratio of predicted energy generation to theoretical maximum possible energy generation in year 30)
Actual Capacity Factor	15.795%		(for comparison, nuclear has a Capacity Factor of about 90%, fossil fuels about 50-60%)

Days of Production	**217.063**		**System cost (not including tax incentives):**	$39,280.00	
Actual Production	**9,298.006**	kWh (cumulative)	**Solar electricity cost so far:**	$4.2246	per kWh
Predicted Production	**8,444.623**	kWh (cumulative)	**Solar electricity cost at the end of year 30:**	$0.0966	per kWh (Assumes uniform, linear production degrdation and $0.00 in maintenance/repairs)
Actual/Predicted Ratio	**110.106%**		**Most recent utility electricity cost:**	$0.2791	per kWh (January 2026)
			Most recent utility cost to remain connected to grid:	$41.1633	per month

Month	Days	Total Production (kWh)	Best Day	Best Day (kWh)	Worst Day	Worst Day (kWh)	Avg Production per Day (kWh)	Actual Production compared to Predicted Production
June 2025	13.354	832.294	Sunday, June 29, 2025	88.561	Tuesday, June 17, 2025	24.762	62.325	160.201%
July 2025	31.000	2,138.018	Friday, July 18, 2025	88.767	Thursday, July 31, 2025	28.703	68.968	177.278%
August 2025	31.000	2,003.150	Friday, August 1, 2025	86.367	Wednesday, August 20, 2025	14.439	64.618	166.095%
September 2025	30.000	1,840.597	Monday, September 1, 2025	80.243	Thursday, September 25, 2025	12.242	61.353	157.704%
October 2025	31.000	1,305.429	Wednesday, October 1, 2025	70.621	Thursday, October 30, 2025	5.140	42.111	108.242%
November 2025	30.042	586.365	Tuesday, November 4, 2025	57.227	Tuesday, November 11, 2025	0.254	19.518	50.171%
December 2025	31.000	337.804	Monday, December 22, 2025	28.692	Saturday, December 27, 2025	0.162	10.897	28.010%
January 2026	19.667	254.349	Tuesday, January 20, 2026	53.467	Sunday, January 4, 2026	0.081	12.933	33.243%