

**Solar System DC size (maximum DC output from panels)** 13.485 kW Panels: (31) Hanwha Q.Cells, Q.TRON BLK, M-G2+ SERIES, 435W  
**Solar System AC size (maximum AC output from inverters)** 11.300 kW Micro-Inverters: (31) EnPhase Energy, IQ8AC-72-M-US  
**Maximum Energy Production - Annual (theoretical max)** 98,988.000 kWh (if the sun shone 24/7/365 at the ideal angle for the panels with no degradation 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 in reality)  
**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)  
**Realized Capacity Factor to date:** 14.384% (for comparison, nuclear has a Capacity Factor of about 90%, fossil fuels about 50-60%)  
**Average Amount of Daylight per Day** 733 minutes  
**Predicted Wh per daylight minute - year 1** 53 Wh / daylight minute

**Days of Production** 317.354  
**Actual Production** 12,379.549 kWh (cumulative)  
**Predicted Production** 12,346.381 kWh (cumulative)  
**Actual/Predicted Ratio** 100.269%  
**Total Number of 0 Production Days** 2

**System cost (not including tax incentives):** \$39,280.00  
**Solar electricity cost so far:** \$3.1730 per kWh  
**Solar electricity cost at the end of year 30:** \$0.0966 per kWh (Assumes uniform, linear production degradation and \$0.00 in maintenance/repairs)  
**Most recent utility electricity cost:** \$0.2858 per kWh (includes, customer charge, solar customer charge, supply charges & delivery charges)  
**Most recent utility cost to remain connected to grid:** \$40.6060 per month (includes customer charge & solar customer charge)

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	Avg Efficiency (Wh per daylight minute)
June 2025	13.354	832.294	Sunday, June 29, 2025	88.561	Tuesday, June 17, 2025	24.762	62.325	160.201%	69.375
July 2025	31.000	2,138.018	Friday, July 18, 2025	88.767	Thursday, July 31, 2025	28.703	68.968	177.278%	76.620
August 2025	31.000	2,003.150	Friday, August 1, 2025	86.367	Wednesday, August 20, 2025	14.439	64.618	166.095%	77.563
September 2025	30.000	1,840.597	Monday, September 1, 2025	80.243	Thursday, September 25, 2025	12.242	61.353	157.704%	82.023
October 2025	31.000	1,305.429	Wednesday, October 1, 2025	70.621	Thursday, October 30, 2025	5.140	42.111	108.242%	63.816
November 2025	30.042	586.365	Tuesday, November 4, 2025	57.227	Tuesday, November 11, 2025	0.254	19.518	50.171%	33.560
December 2025	31.000	337.804	Monday, December 22, 2025	28.692	Saturday, December 27, 2025	0.162	10.897	28.010%	20.091
January 2026	31.000	297.737	Tuesday, January 20, 2026	54.410	Sunday, January 25, 2026	0.000	9.604	24.687%	17.001
February 2026	28.000	382.333	Saturday, February 28, 2026	51.802	Sunday, February 1, 2026	0.000	13.655	35.098%	21.591
March 2026	30.958	1,148.992	Friday, March 27, 2026	86.424	Sunday, March 22, 2026	3.621	37.114	95.399%	51.663
April 2026	30.000	1,506.830	Sunday, April 26, 2026	89.703	Thursday, April 2, 2026	11.076	50.228	129.106%	62.304

Most Efficient Day	Wh per daylight minute
Sunday, June 29, 2025	96.157
Friday, July 18, 2025	98.740
Sunday, August 31, 2025	103.720
Saturday, September 20, 2025	105.541
Thursday, October 16, 2025	102.761
Tuesday, November 4, 2025	94.123
Monday, December 22, 2025	53.232
Tuesday, January 20, 2026	95.456
Saturday, February 28, 2026	77.201
Friday, March 27, 2026	115.232
Wednesday, April 8, 2026	112.521