



Solar Electric System

Proposal and Financial Report

Optimized for 1001 Evergreen Terrace, Springfield, OH

1/23/2026

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For:

Apu Nahasapeemapetilon

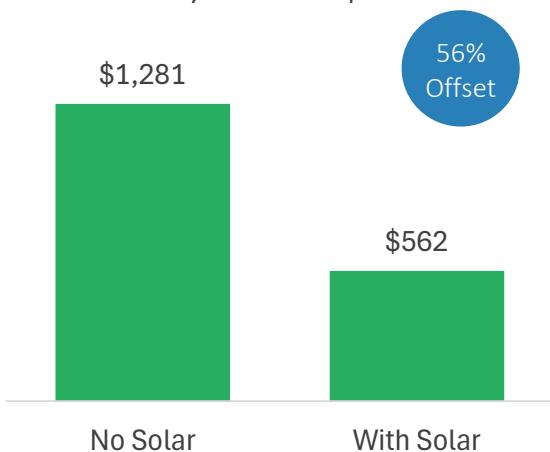
939-555-0117

apu@kwikemart.springfield

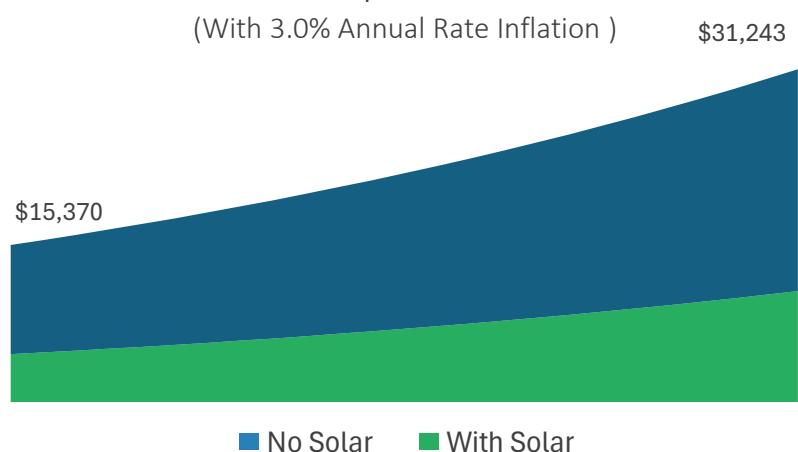


Financial Projections

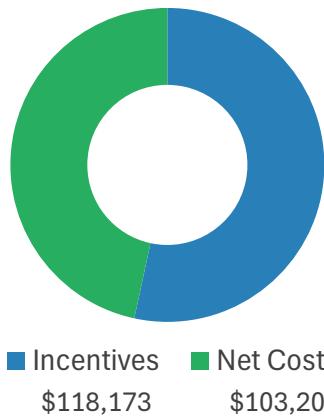
Monthly Bill Comparison



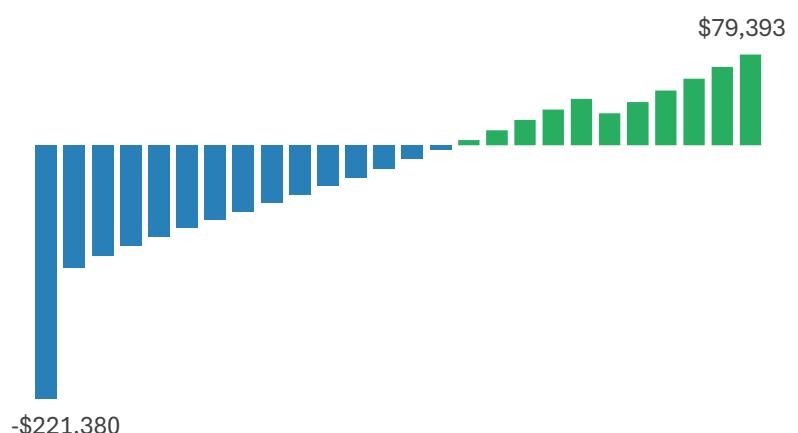
Annual Bill Comparison over 25 Years



System Cost

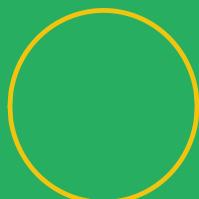


Cumulative Cash Flow



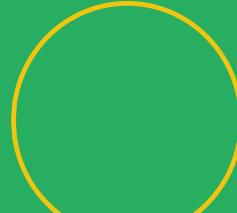
Compare Investment Opportunities

U.S. Treasury
30 Year Security
(As of 10/1/2015)



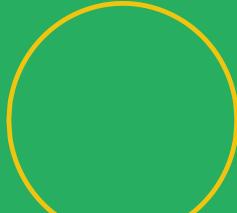
2.9% IRR¹

S&P 500
Annualized Return
(2000 to 2014)



4.2% IRR²

Solar System
Compound Return
(2026 to 2050)



4.2% IRR

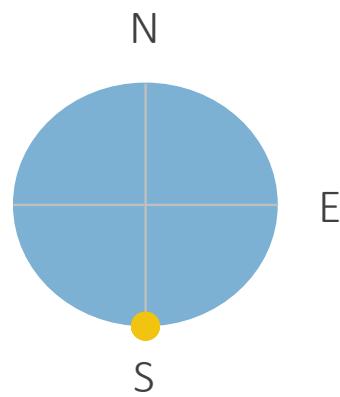


System Overview

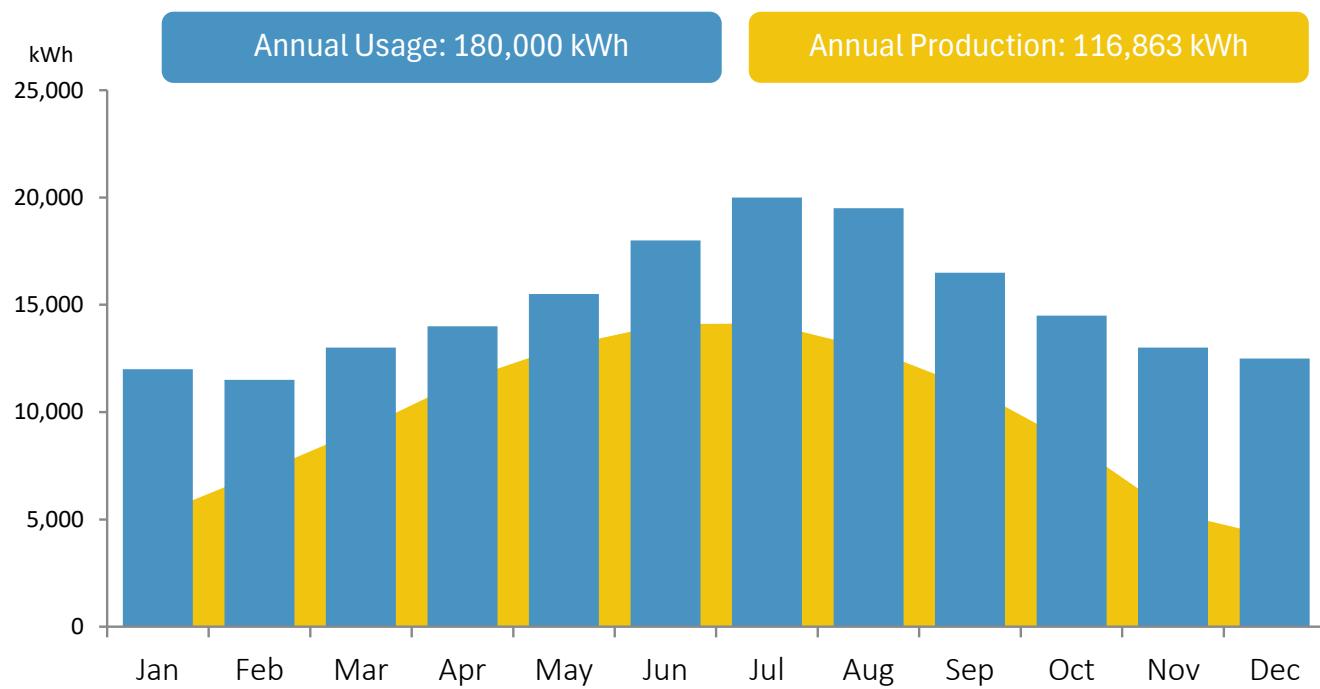
100 kW DC System Size

250 Silfab Solar Inc. Solar Panels (400W DC)

2 SMA America Inverters



System Production





Financial Timeline

(With Tax Effects)

Year	Annual Bill No Solar	Annual Bill With Solar	Electric Bill Savings *	Net Incentives	O&M	Cash Flow	Cumulative Cash Flow
0						(\$221,380)	(\$221,380)
1	\$15,370	\$6,738	\$6,341	\$108,379	(\$307)	\$114,413	(\$106,967)
2	\$15,831	\$6,984	\$6,500	\$3,918	(\$318)	\$10,099	(\$96,868)
3	\$16,306	\$7,238	\$6,662	\$2,351	(\$329)	\$8,684	(\$88,184)
4	\$16,795	\$7,500	\$6,829	\$1,408	(\$341)	\$7,896	(\$80,288)
5	\$17,299	\$7,771	\$7,000	\$1,408	(\$352)	\$8,055	(\$72,233)
6	\$17,818	\$8,052	\$7,175	\$710	(\$365)	\$7,520	(\$64,713)
7	\$18,352	\$8,343	\$7,354		(\$378)	\$6,976	(\$57,736)
8	\$18,903	\$8,643	\$7,538		(\$391)	\$7,147	(\$50,589)
9	\$19,470	\$8,954	\$7,726		(\$404)	\$7,322	(\$43,267)
10	\$20,054	\$9,275	\$7,919		(\$419)	\$7,501	(\$35,767)
11	\$20,655	\$9,607	\$8,117		(\$433)	\$7,684	(\$28,083)
12	\$21,275	\$9,950	\$8,320		(\$448)	\$7,872	(\$20,211)
13	\$21,913	\$10,305	\$8,528		(\$464)	\$8,064	(\$12,146)
14	\$22,571	\$10,673	\$8,742		(\$480)	\$8,261	(\$3,885)
15	\$23,248	\$11,052	\$8,960		(\$497)	\$8,463	\$4,578
16	\$23,945	\$11,445	\$9,184		(\$515)	\$8,670	\$13,247
17	\$24,664	\$11,851	\$9,414		(\$533)	\$8,881	\$22,128
18	\$25,404	\$12,270	\$9,649		(\$551)	\$9,098	\$31,226
19	\$26,166	\$12,704	\$9,890		(\$571)	\$9,320	\$40,546
20	\$26,951	\$13,152	\$10,138		(\$22,631)	(\$12,494)	\$28,052
21	\$27,759	\$13,616	\$10,391		(\$611)	\$9,780	\$37,832
22	\$28,592	\$14,095	\$10,651		(\$633)	\$10,018	\$47,850
23	\$29,450	\$14,591	\$10,917		(\$655)	\$10,262	\$58,112
24	\$30,333	\$15,103	\$11,190		(\$678)	\$10,512	\$68,624
25	\$31,243	\$15,632	\$11,470		(\$701)	\$10,768	\$79,393
Total	\$560,364	\$265,543	\$216,605	\$118,173	(\$34,004)	\$79,393	\$79,393

Net Incentives Includes:

30% Federal Tax Credit
Depreciation (Federal & Net State)

O&M Includes:

Maintenance
Inverter Replacement

* Projected electric bill savings are after lost tax deduction value.



Additional Information

Apu Nahasapeemapetilon
1001 Evergreen Terrace
Springfield, OH 45501

Utility: AEPOhioPwr
Current Rate: GS-1 — Commercial

System Detail

System Size: 100.00 kW DC

Main Equipment:

250 Silfab Solar Inc. SIL-400BG Solar Panels
2 SMA America STP 50-US-41 {480V} Inverters
Facing South at 22° Tilt

System Cost

Gross System Price (\$2.20 per DC Watt)	\$221,380
30% Federal Tax Credit	-\$66,414

Depreciation (Federal & Net State)	-\$51,759
Net System Cost	\$103,207

Assumptions

Federal Income Tax Rate	21.0%
State Income Tax Rate	7.0%
Annual Electric Rate Inflation	3.0%
Sun Hours (Daily Average)	4.1
Annual Solar Panel Degradation	0.5%
Total System Efficiency *	76.53%
Annual System Maintenance (Year 1)	\$418
Inverter Replacement Cost (Year 20)	\$30,000
Analysis Period	25 Years

Results (Projected)

Historical Annual Usage	180,000 kWh
Annual Solar Production	116,863 kWh
Old Monthly Bill Average	\$1,281
New Monthly Bill Average	\$562
Annual Utility Bill Offset	56%
25-Year Net Savings	\$182,600
IRR	4.2%

* Losses by category: Dust / Soiling (7.0%), Wiring (3.0%), Solar Panel Mismatch (2.0%), System Availability (2.0%), Manufacturer Production Tolerance (3.0%), Inverter (2.5%), PTC Rating Correction (4.6%), Shading (0.0%)