



Solar Electric System

Proposal and Financial Report

Optimized for 117 So Mary Ave, #30, Sunnyvale, CA

10/22/2015

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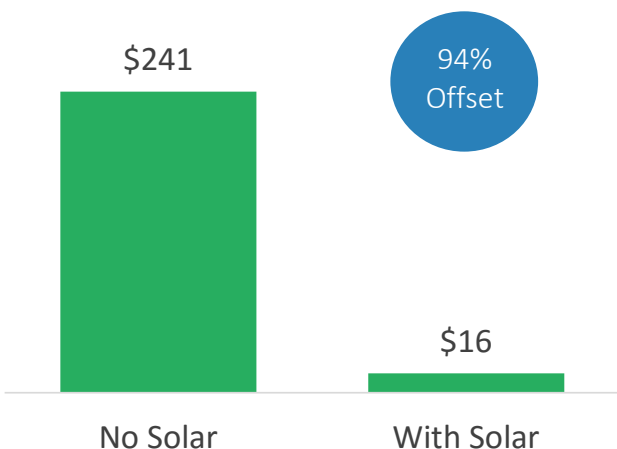
jack@goingsolar.com



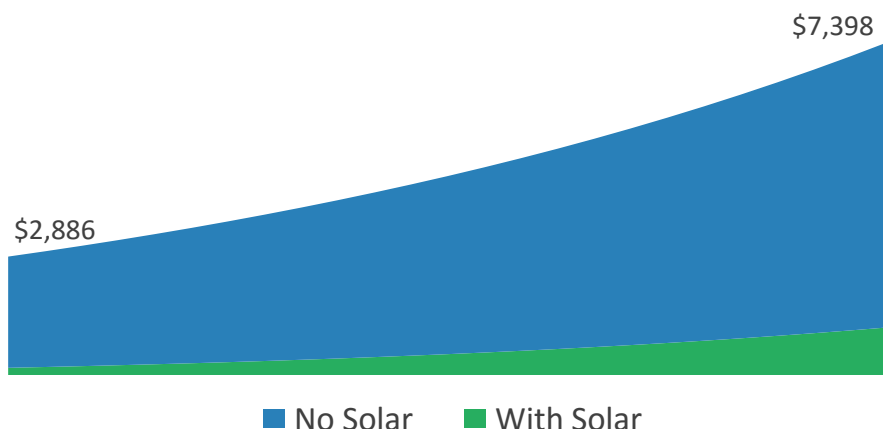


Financial Projections

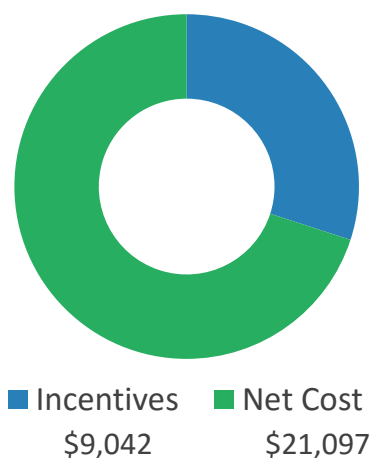
Monthly Bill Comparison



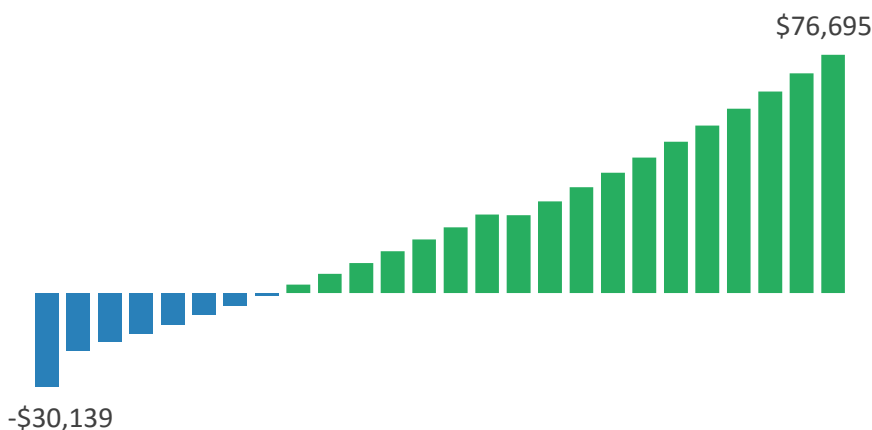
Annual Bill Comparison over 25 Years (With 4.0% Annual Rate Inflation)



System Cost



Cumulative Cash Flow



Compare Investment Opportunities

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



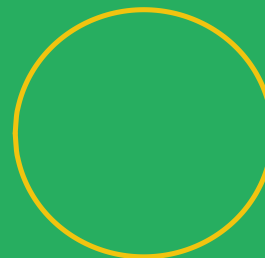
2.9% APY¹

S&P 500
Annualized Return
(2000 to 2014)



4.2% APY²

Solar System
Compound Return
(2015 to 2039)

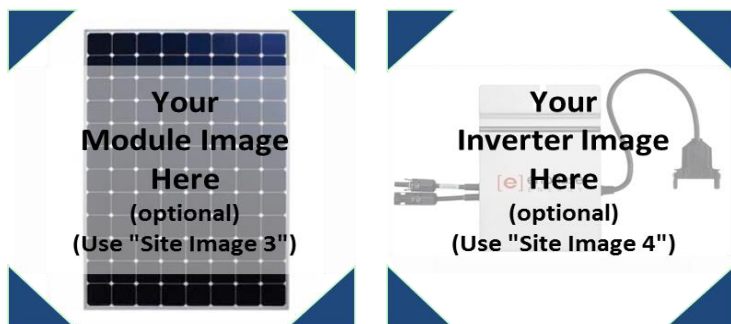
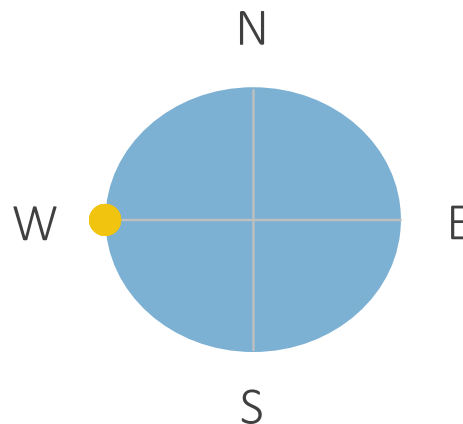


25.6% APY

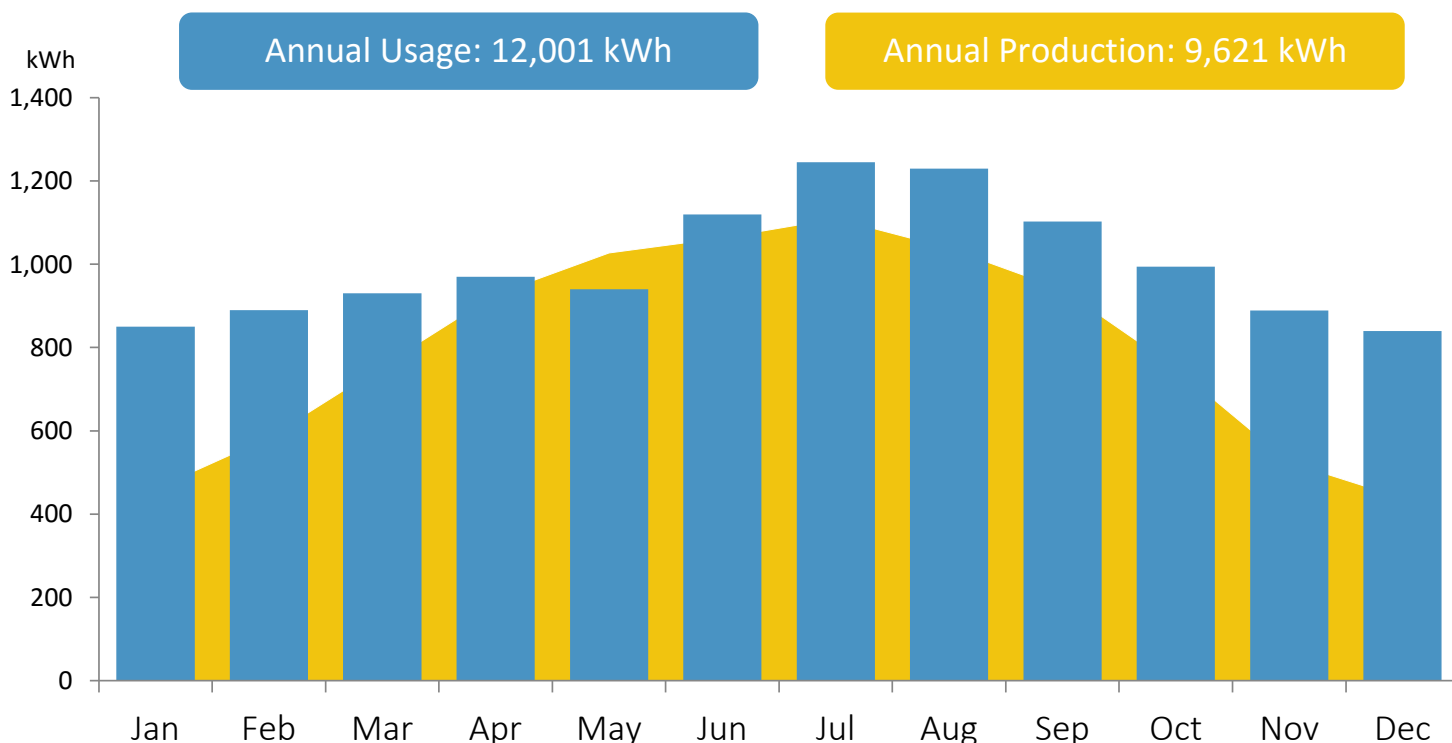


System Overview

6.3 kW DC System Size
 27 SunPower Panels (235W DC)
 27 Enphase Energy Inverters



System Production





Financial Timeline

Year	Annual Bill No Solar	Annual Bill With Solar	Electric Bill Savings	Net Incentives	System Upkeep	Cash Flow	Cumulative Cash Flow
0						(\$30,139)	(\$30,139)
1	\$2,886	\$186	\$2,700	\$9,042	(\$75)	\$11,666	(\$18,472)
2	\$3,002	\$207	\$2,795		(\$78)	\$2,717	(\$15,756)
3	\$3,122	\$229	\$2,892		(\$81)	\$2,812	(\$12,944)
4	\$3,246	\$253	\$2,994		(\$84)	\$2,910	(\$10,034)
5	\$3,376	\$278	\$3,098		(\$86)	\$3,012	(\$7,022)
6	\$3,511	\$305	\$3,207		(\$89)	\$3,117	(\$3,905)
7	\$3,652	\$333	\$3,319		(\$93)	\$3,227	(\$678)
8	\$3,798	\$363	\$3,435		(\$96)	\$3,339	\$2,661
9	\$3,950	\$394	\$3,556		(\$99)	\$3,456	\$6,118
10	\$4,108	\$428	\$3,680		(\$103)	\$3,577	\$9,695
11	\$4,272	\$463	\$3,809		(\$106)	\$3,702	\$13,397
12	\$4,443	\$501	\$3,942		(\$110)	\$3,832	\$17,230
13	\$4,621	\$541	\$4,080		(\$114)	\$3,966	\$21,196
14	\$4,806	\$583	\$4,223		(\$118)	\$4,105	\$25,301
15	\$4,998	\$627	\$4,371		(\$4,563)	(\$193)	\$25,108
16	\$5,198	\$674	\$4,524		(\$126)	\$4,397	\$29,505
17	\$5,406	\$724	\$4,682		(\$131)	\$4,551	\$34,057
18	\$5,622	\$776	\$4,846		(\$135)	\$4,711	\$38,767
19	\$5,847	\$831	\$5,015		(\$140)	\$4,875	\$43,643
20	\$6,081	\$890	\$5,191		(\$145)	\$5,046	\$48,689
21	\$6,324	\$951	\$5,373		(\$150)	\$5,223	\$53,912
22	\$6,577	\$1,016	\$5,561		(\$155)	\$5,406	\$59,317
23	\$6,840	\$1,085	\$5,755		(\$161)	\$5,595	\$64,912
24	\$7,113	\$1,157	\$5,957		(\$166)	\$5,791	\$70,702
25	\$7,398	\$1,233	\$6,165		(\$172)	\$5,993	\$76,695
Total	\$120,195	\$15,026	\$105,169	\$9,042	(\$7,376)	\$76,695	\$76,695

Net Incentives Includes:

30% Federal Tax Credit

System Upkeep Includes:

Maintenance
Inverter Replacement



Additional Information

Jack Sun and Jill Sky
117 So Mary Ave, #30
Sunnyvale, CA 94087

Utility: PG&E
Current Rate: E1 -- Residential Tiered-kWh
New Solar Rate: E6 -- Residential TOU Tiered-kWh

System Detail

System Size: 6.3 kW DC

Equipment:

27 SunPower SER-235P Modules

27 Enphase Energy M250-60-2LL-S2X (-ZC) (-NA) (240V)

Facing South at 22° Tilt

System Cost

Gross System Price (\$4.75 per DC Watt)	\$30,139
30% Federal Tax Credit	-\$9,042
Net System Cost	\$21,097

Assumptions

Federal Income Tax Rate	28.0%
State Income Tax Rate	9.3%
Annual Electric Rate Inflation	4.0%
Sun Hours (Daily Average)	5.3
Annual Module Degradation	0.5%
Total System Efficiency *	77.06%
Annual System Maintenance (Year 1)	\$75
Inverter Replacement Cost (Year 15)	\$4,442
Analysis Period	25 Years

Results (Projected)

Historical Annual Usage	12,001 kWh
Annual Solar Production	9,621 kWh
Old Monthly Bill Average	\$241
New Monthly Bill Average	\$16
Annual Utility Bill Offset	94%
25-Year Net Savings	\$97,793
APY (Pre-Tax Adjusted)	25.6%

* Losses by category: Dust / Soiling (4.0%), Wiring (3.0%), Module Mismatch (0.0%), System Availability (2.0%), Manufacturer Production Tolerance (3.0%), Inverter (3.5%), PTC Rating Correction (7.8%), Shading (0.0%)