

Solar Investment and Savings Analysis 6/11/12

Solar Consultant:

Seth Stulgis Kenergy Solar 617.291.0408 seth@kenergysolar.com

Proposal For:

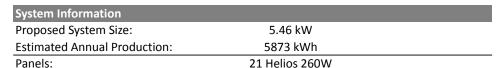
Daniel Hellerstein

Site Location:

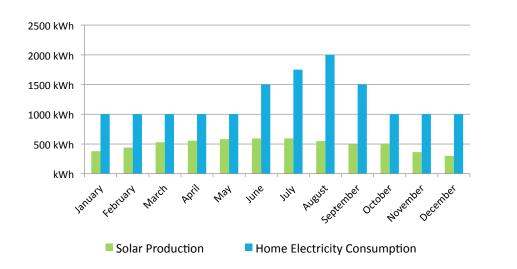
1909 Franwall Ave Silver Spring, MD 20902

Utility Savings	
Old Bill:	\$172
New Bill:	\$104
Savings First Month:	\$69
Savings First Year:	\$822
% Bill Offset:	40%





Inverter: 1 Solar Edge Inverter and DC Optimizers or Microinver



Included Products and Services

- •Turnkey installation service, which includes grant filings, interconnection application and completion certificates, county permit filings, inspections, lifetime monitoring, and SREC registration
- •5 Year Workmanship Warranty
- •Maintenance Package option includes scheduled annual site visits to inspect your installation which includes cleaning, checking the electrical connections of the wiring, system output, and general condition of your system. Starts at \$100/year.

Note: Incentives and energy savings depend upon several factors that may not be represented in this analysis. The system may be changed based on a detailed engineering site audit. Actual system production and savings will vary based on final system size, design, your energy usage, and utility rates.



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7%

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Financial Benefits
Net Present Value: \$21,274
Cumulative Savings Over 30 Years: \$45,975

30 Year IRR (Post Tax):

Payback in Year:

System Cost	
Total Cost:	\$28,938
State and Local Rebates:	(\$1,000)
Tax on Rebates:	\$330
Federal Tax Credit:	(\$8,681)
Savings First Year:	(\$822)
SRECs First Year:	(\$1,527)
Final System Cost After Year 1:	\$17,237

\$9,000	
\$8,000	
\$7,000	
\$6,000	
\$5,000	
\$4,000	
\$3,000	
\$2,000	
\$1,000	
\$-	
	Old Bill New Bill

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Solar Investment and Savings Analysis

Cash Flow Analysis

6/11/12

Proposal For: Daniel Hellerstein

Solar Consultant: Seth Stulgis seth@kenergysolar.com

Assumptions	
Cost per watt:	\$5.30
Flect Inflation	5%

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						State & Local			Federal &		
				System Cost &		Rebates/			State Taxes		
	Electric Bill	Electric Bill	Savings on	Inverter	Maintenance			Federal Tax	(On SRECs	Overall	Cumulative
Year	Without Solar	With Solar	Electric Bill	Replacement	Package	Credits	SRECs	Credit	and Rebates)	Savings	Cash Flow
0	\$0	\$0	\$0	-\$28,938	No					-\$28,938	-\$28,938
1	\$2,065	\$1,243	\$822		\$0	\$1,000	\$1,527	\$8,681	-\$834	\$12,031	-\$16,907
2	\$2,168	\$1,305	\$863		\$0		\$1,526		-\$504	\$2,389	-\$14,518
3	\$2,277	\$1,371	\$906		\$0		\$1,525		-\$503	\$2,431	-\$12,087
4	\$2,390	\$1,440	\$950		\$0		\$1,334		-\$440	\$2,284	-\$9,803
5	\$2,510	\$1,513	\$997		\$0		\$1,333		-\$440	\$2,331	-\$7,472
6	\$2,636	\$1,589	\$1,047		\$0		\$762		-\$251	\$1,808	-\$5,664
7	\$2,767	\$1,669	\$1,099		\$0		\$761		-\$251	\$1,860	-\$3,804
8	\$2,906	\$1,753	\$1,153		\$0		\$571		-\$188	\$1,724	-\$2,080
9	\$3,051	\$1,841	\$1,210		\$0		\$570		-\$188	\$1,780	-\$300
10	\$3,203	\$1,934	\$1,270		\$0		\$380		-\$125	\$1,650	\$1,350
11	\$3,364	\$2,031	\$1,333		\$0		\$380		-\$125	\$1,712	\$3,062
12	\$3,532	\$2,133	\$1,399		\$0		\$190		-\$63	\$1,588	\$4,651
13	\$3,708	\$2,241	\$1,468		\$0		\$190		-\$63	\$1,657	\$6,308
14	\$3,894	\$2,353	\$1,540		\$0		\$190		-\$63	\$1,730	\$8,038
15	\$4,089	\$2,472	\$1,617	-\$1,092	\$0		\$190		-\$63	\$714	\$8,752
16	\$4,293	\$2,596	\$1,697		\$0		\$189		-\$63	\$1,886	\$10,638
17	\$4,508	\$2,727	\$1,780		\$0		\$189		-\$62	\$1,970	\$12,608
18	\$4,733	\$2,864	\$1,869		\$0		\$189		-\$62	\$2,058	\$14,666
19	\$4,970	\$3,009	\$1,961		\$0		\$189		-\$62	\$2,150	\$16,816
20	\$5,218	\$3,160	\$2,058		\$0		\$0		\$0	\$2,058	\$18,874
20-Year Total	\$68,281	\$41,244	\$27,037	-\$30,030	\$0	\$1,000	\$12,186	\$8,681	-\$4,351	\$18,874	
21	\$5,479	\$3,319	\$2,160		\$0		\$0		\$0	\$2,160	\$21,034
22	\$5,753	\$3,486	\$2,267		\$0		\$0		\$0	\$2,267	\$23,301
23	\$6,041	\$3,662	\$2,379		\$0		\$0		\$0	\$2,379	\$25,680
24	\$6,343	\$3,846	\$2,497		\$0		\$0		\$0	\$2,497	\$28,176
25	\$6,660	\$4,040	\$2,620		\$0		\$0		\$0	\$2,620	\$30,796
26	\$6,993	\$4,243	\$2,750		\$0		\$0		\$0	\$2,750	\$33,546
27	\$7,342	\$4,457	\$2,886		\$0		\$0		\$0	\$2,886	\$36,432
28	\$7,710	\$4,681	\$3,029		\$0		\$0		\$0	\$3,029	\$39,461
29	\$8,095	\$4,917	\$3,178		\$0		\$0		\$0	\$3,178	\$42,639
30	\$8,500	\$5,164	\$3,336		\$0		\$0		\$0	\$3,336	\$45,975
30-Year Total	\$137,196	\$83,059	\$54,137	-\$30,030	\$0	\$1,000	\$12,186	\$8,681	-\$4,351	\$45,975	

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