

# Solar Investment and Savings Analysis

6/11/12

## Solar Consultant:

Seth Stulgis  
 Kenergy Solar  
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 seth@kenergysolar.com

## Proposal For:

Daniel Hellerstein

## Site Location:

1909 Franwall Ave Silver Spring, MD 20902

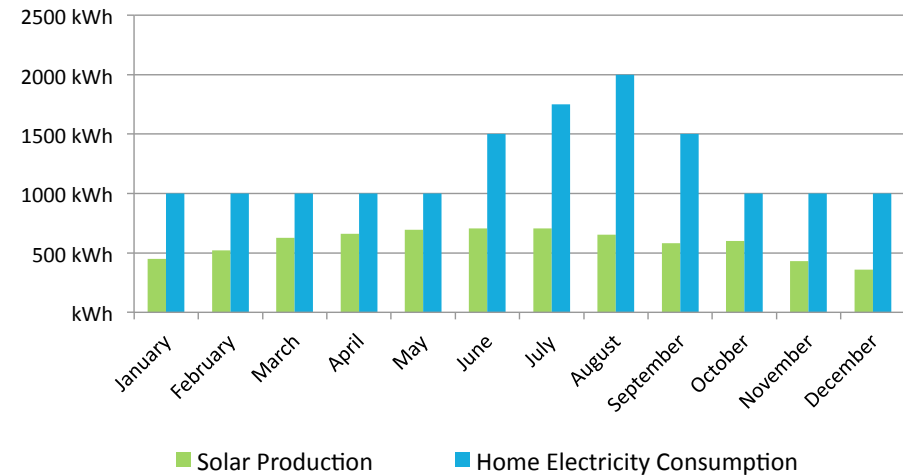
## Utility Savings

Old Bill:	\$172
New Bill:	\$91
Savings First Month:	\$82
Savings First Year:	\$979
% Bill Offset:	47%



## System Information

Proposed System Size:	6.50 kW
Estimated Annual Production:	6992 kWh
Panels:	25 Helios 260W
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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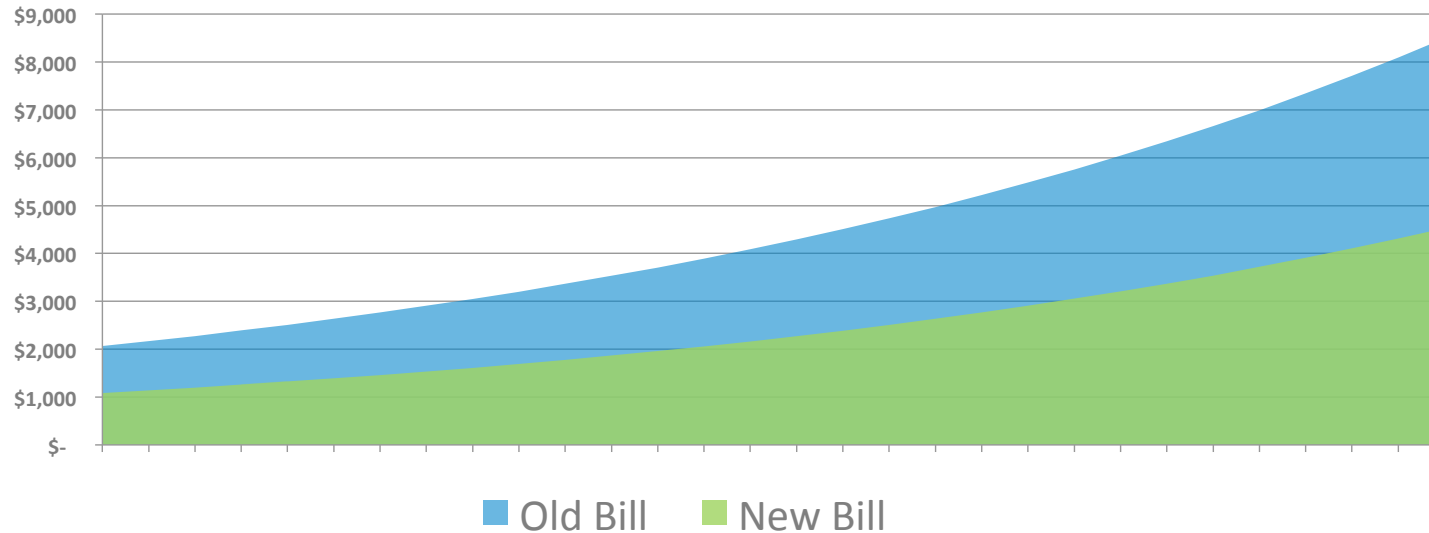
Kenergy Solar

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System Cost	
Total Cost:	\$33,605
State and Local Rebates:	(\$1,000)
Tax on Rebates:	\$330
Federal Tax Credit:	(\$10,082)
Savings First Year:	(\$979)
SRECs First Year:	(\$1,818)
<b>Final System Cost After Year 1:</b>	<b>\$20,057</b>

Financial Benefits	
Net Present Value:	\$25,730
Cumulative Savings Over 30 Years:	\$55,136
30 Year IRR (Post Tax):	8%
Payback in Year:	9



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# Solar Investment and Savings Analysis

## Cash Flow Analysis

6/11/12

Proposal For: Daniel Hellerstein

Solar Consultant: Seth Stulgis

seth@kenegysolar.com

Assumptions	
Cost per watt:	\$5.17
Elect. Inflation	5%

Year	Electric Bill Without Solar	Electric Bill With Solar	Savings on Electric Bill	System Cost &		State & Local		Federal Tax Credit	Federal & State Taxes		Overall Savings	Cumulative Cash Flow
				Inverter Replacement	Maintenance Package	Rebates/Property Tax Credits	SRECs		(On SRECs and Rebates)			
0	\$0	\$0	\$0	-\$33,605	No					-\$33,605	-\$33,605	
1	\$2,065	\$1,086	\$979		\$0	\$1,000	\$1,818	\$10,082	-\$930	\$13,878	-\$19,727	
2	\$2,168	\$1,141	\$1,027		\$0		\$1,817		-\$600	\$2,844	-\$16,882	
3	\$2,277	\$1,199	\$1,078		\$0		\$1,816		-\$599	\$2,894	-\$13,988	
4	\$2,390	\$1,259	\$1,131		\$0		\$1,588		-\$524	\$2,720	-\$11,268	
5	\$2,510	\$1,323	\$1,187		\$0		\$1,588		-\$524	\$2,775	-\$8,493	
6	\$2,636	\$1,389	\$1,246		\$0		\$907		-\$299	\$2,153	-\$6,341	
7	\$2,767	\$1,459	\$1,308		\$0		\$906		-\$299	\$2,214	-\$4,126	
8	\$2,906	\$1,533	\$1,373		\$0		\$679		-\$224	\$2,052	-\$2,075	
9	\$3,051	\$1,610	\$1,440		\$0		\$679		-\$224	\$2,119	\$45	
10	\$3,203	\$1,692	\$1,512		\$0		\$452		-\$149	\$1,964	\$2,009	
11	\$3,364	\$1,777	\$1,587		\$0		\$452		-\$149	\$2,039	\$4,048	
12	\$3,532	\$1,867	\$1,665		\$0		\$226		-\$75	\$1,891	\$5,939	
13	\$3,708	\$1,961	\$1,747		\$0		\$226		-\$75	\$1,973	\$7,912	
14	\$3,894	\$2,060	\$1,834		\$0		\$226		-\$75	\$2,060	\$9,972	
15	\$4,089	\$2,164	\$1,925	-\$1,300	\$0		\$226		-\$74	\$850	\$10,822	
16	\$4,293	\$2,273	\$2,020		\$0		\$226		-\$74	\$2,245	\$13,067	
17	\$4,508	\$2,388	\$2,120		\$0		\$225		-\$74	\$2,345	\$15,413	
18	\$4,733	\$2,508	\$2,225		\$0		\$225		-\$74	\$2,450	\$17,863	
19	\$4,970	\$2,635	\$2,335		\$0		\$225		-\$74	\$2,560	\$20,422	
20	\$5,218	\$2,768	\$2,450		\$0		\$0		\$0	\$2,450	\$22,873	
<b>20-Year Total</b>	<b>\$68,281</b>	<b>\$36,093</b>	<b>\$32,189</b>	<b>-\$34,905</b>	<b>\$0</b>	<b>\$1,000</b>	<b>\$14,508</b>	<b>\$10,082</b>	<b>-\$5,117</b>	<b>\$22,873</b>		
21	\$5,479	\$2,908	\$2,571		\$0		\$0		\$0	\$2,571	\$25,444	
22	\$5,753	\$3,054	\$2,699		\$0		\$0		\$0	\$2,699	\$28,143	
23	\$6,041	\$3,209	\$2,832		\$0		\$0		\$0	\$2,832	\$30,975	
24	\$6,343	\$3,370	\$2,972		\$0		\$0		\$0	\$2,972	\$33,947	
25	\$6,660	\$3,541	\$3,119		\$0		\$0		\$0	\$3,119	\$37,066	
26	\$6,993	\$3,719	\$3,274		\$0		\$0		\$0	\$3,274	\$40,340	
27	\$7,342	\$3,907	\$3,436		\$0		\$0		\$0	\$3,436	\$43,776	
28	\$7,710	\$4,104	\$3,606		\$0		\$0		\$0	\$3,606	\$47,381	
29	\$8,095	\$4,311	\$3,784		\$0		\$0		\$0	\$3,784	\$51,165	
30	\$8,500	\$4,529	\$3,971		\$0		\$0		\$0	\$3,971	\$55,136	
<b>30-Year Total</b>	<b>\$137,196</b>	<b>\$72,744</b>	<b>\$64,452</b>	<b>-\$34,905</b>	<b>\$0</b>	<b>\$1,000</b>	<b>\$14,508</b>	<b>\$10,082</b>	<b>-\$5,117</b>	<b>\$55,136</b>		

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