

Daniel H. - 1909 Franwall Ave. Wheaton, MD 20902





A TOTAL OF 30 SANYO 225W PANELS = 6,750Wp - ESTIMATED MAXIMUM INSTALLED SYSTEM COST AT ~\$48,532.50 – 30% TAX CREDIT = \$33,972.75 - \$1000 STATE GRANT = \$32,972.75

PROJECTED TOTAL KWH/YR PRODUCTION - 6,650 X \$0.15 = \$998.00 + 6.6 SRECS (MWH) X ~\$200 = \$1330/YR X 3 YR = \$3,990 – TOTAL 3 YEAR RETURN = \$6,984 (\$22,543.75)

TOTAL NET AFTER TEN YEARS (STRAIGHT LINE- NO ESCALATION) = \$6,247.75 - SYSTEM WILL BE TOTALLY PAID BACK ON ~13 YEARS AT THIS ESTIMATED MAX COST. THERE IS A GOOD CHANCE THAT THE COST OF THIS SYSTEM WILL COME IN AT LESS THAN THIS MAXIMUM TARGET BUT WE WILL NEED TO DO SOME MORE ENGINEERING TO GET THE COST DOWN. MIN COST ESTIMATE IS \$42,457.50. PLEASE LET ME KNOW IF YOU WANT TO TANK THIS ANY FURTHER.



AC Energy & Cost Savings



Station Identification	
City:	Sterling
State:	Virginia
Latitude:	38.95° N
Longitude:	77.45° W
Elevation:	82 m
PV System Specifications	
DC Rating:	6.0 kW
DC to AC Derate Factor:	0.770
AC Rating:	4.6 kW
Array Type:	Fixed Tilt
Array Tilt:	5.0°
Array Azimuth:	180.0°
Energy Specifications	
Cost of Electricity:	15.0 ¢/kWh

Results			
Month	Solar Radiation (kWh/m ² /day)	AC Energy (kWh)	Energy Value (\$)
1	2.39	333	49.95
2	3.21	412	61.80
3	4.17	586	87.90
4	5.21	686	102.90
5	5.70	742	111.30
6	6.33	796	119.40
7	5.98	757	113.55
8	5.43	696	104.40
9	4.61	582	87.30
10	3.67	487	73.05
11	2.46	320	48.00
12	1.95	259	38.85
Year	4.26	6657	998.55