

SOLAR PROJECT - SUMMARY

Solar PV Project Sites: Rooftop Solar Arrays - Spring Hills Elementary and Roselle Middle Schools

Combined Solar PV System Summary

Solar PV kWdc System Size:	471.9 kWdc
Solar PV kWac System Size:	399.6 kWac
PV System Type:	Roof
PV System Annual Generation:	580,924 kWh
Bldg Annual Elec Usage:	588,177 kWh
Bldg Elec kWh Offset by Solar:	98.8%

Combined Project Financial Summary

PSI Turnkey Installation Budget:	\$	1,287,655
ComEd Rebate:	\$	117,975
Estimated REC Incentive (over 1st 5 years):	\$	400,766
Gross Savings in Year 1:	\$	229,028
Gross Savings over 20 Years:	\$	1,733,163
Gross Savings over 30 Years:	\$	2,639,550

Notes:

1. The estimated combined future REC incentive is \$383,000 - \$432,000.
2. REC Income is contingent upon future REC prices, availability, and approval in the Illinois Power Agency Adjustable Block Program
3. Rebate value is estimated based on 2020 values and is subject to change.
4. Solar array design and location is contingent upon roof condition, building structure analysis, and village and county approval.



SOLAR PROJECT - CASH FLOW

Solar PV Project Sites: Rooftop Solar Arrays - Spring Hills Elementary and Roselle Middle Schools

Assumptions

Annual Solar Degradation:		0.50%
Electric Consumption Rate (\$/kWh) - RMS:	\$	0.046
Electric Consumption Rate (\$/kWh) - SHES:	\$	0.042
Electric Demand Rate (\$/kW) - RMS:	\$	7.37
Electric Demand Rate (\$/kW) - SHES:	\$	7.37
Annual Rate Escalation:		3.0%
Solar Capacity % at PJM Coincident Peak:		50%

Year	Solar kWh Generation	Utility Cost - Before Project	Utility Cost - After Project	Utility Cost Savings	ComEd Rebate	Estimated REC Income	Annual Gross Savings	Cumulative Gross Savings
1	580,924	\$ (65,661)	\$ (34,762)	\$ 30,900	\$ 117,975	\$ 80,153	\$ 229,028	\$ 229,028
2	578,019	\$ (67,631)	\$ (18,991)	\$ 48,640	\$ -	\$ 80,153	\$ 128,793	\$ 357,821
3	575,129	\$ (69,660)	\$ (19,724)	\$ 49,936	\$ -	\$ 80,153	\$ 130,089	\$ 487,910
4	572,253	\$ (71,750)	\$ (20,483)	\$ 51,267	\$ -	\$ 80,153	\$ 131,420	\$ 619,330
5	569,392	\$ (73,903)	\$ (21,269)	\$ 52,634	\$ -	\$ 80,153	\$ 132,787	\$ 752,117
6	566,545	\$ (76,120)	\$ (22,083)	\$ 54,037	\$ -	\$ -	\$ 54,037	\$ 806,154
7	563,712	\$ (78,403)	\$ (22,925)	\$ 55,478	\$ -	\$ -	\$ 55,478	\$ 861,632
8	560,894	\$ (80,755)	\$ (23,797)	\$ 56,958	\$ -	\$ -	\$ 56,958	\$ 918,590
9	558,089	\$ (83,178)	\$ (24,700)	\$ 58,478	\$ -	\$ -	\$ 58,478	\$ 977,068
10	555,299	\$ (85,673)	\$ (25,635)	\$ 60,039	\$ -	\$ -	\$ 60,039	\$ 1,037,107
11	552,522	\$ (88,243)	\$ (26,602)	\$ 61,641	\$ -	\$ -	\$ 61,641	\$ 1,098,748
12	549,760	\$ (90,891)	\$ (27,604)	\$ 63,287	\$ -	\$ -	\$ 63,287	\$ 1,162,036
13	547,011	\$ (93,617)	\$ (28,640)	\$ 64,977	\$ -	\$ -	\$ 64,977	\$ 1,227,013
14	544,276	\$ (96,426)	\$ (29,713)	\$ 66,713	\$ -	\$ -	\$ 66,713	\$ 1,293,726
15	541,554	\$ (99,319)	\$ (30,823)	\$ 68,495	\$ -	\$ -	\$ 68,495	\$ 1,362,221
16	538,847	\$ (102,298)	\$ (31,972)	\$ 70,326	\$ -	\$ -	\$ 70,326	\$ 1,432,547
17	536,152	\$ (105,367)	\$ (33,162)	\$ 72,206	\$ -	\$ -	\$ 72,206	\$ 1,504,753
18	533,472	\$ (108,528)	\$ (34,392)	\$ 74,136	\$ -	\$ -	\$ 74,136	\$ 1,578,889
19	530,804	\$ (111,784)	\$ (35,665)	\$ 76,119	\$ -	\$ -	\$ 76,119	\$ 1,655,008
20	528,150	\$ (115,138)	\$ (36,983)	\$ 78,155	\$ -	\$ -	\$ 78,155	\$ 1,733,163
21	525,510	\$ (118,592)	\$ (38,346)	\$ 80,246	\$ -	\$ -	\$ 80,246	\$ 1,813,409
22	522,882	\$ (122,150)	\$ (39,756)	\$ 82,393	\$ -	\$ -	\$ 82,393	\$ 1,895,802
23	520,268	\$ (125,814)	\$ (41,216)	\$ 84,598	\$ -	\$ -	\$ 84,598	\$ 1,980,400
24	517,666	\$ (129,589)	\$ (42,725)	\$ 86,863	\$ -	\$ -	\$ 86,863	\$ 2,067,263
25	515,078	\$ (133,476)	\$ (44,287)	\$ 89,189	\$ -	\$ -	\$ 89,189	\$ 2,156,453
26	512,503	\$ (137,480)	\$ (45,902)	\$ 91,578	\$ -	\$ -	\$ 91,578	\$ 2,248,031
27	509,940	\$ (141,605)	\$ (47,573)	\$ 94,032	\$ -	\$ -	\$ 94,032	\$ 2,342,063
28	507,390	\$ (145,853)	\$ (49,302)	\$ 96,551	\$ -	\$ -	\$ 96,551	\$ 2,438,614
29	504,853	\$ (150,229)	\$ (51,089)	\$ 99,139	\$ -	\$ -	\$ 99,139	\$ 2,537,753
30	502,329	\$ (154,735)	\$ (52,939)	\$ 101,797	\$ -	\$ -	\$ 101,797	\$ 2,639,550
TOTAL	16,221,224	\$ (3,123,870)	\$ (1,003,061)	\$ 2,120,809	\$ 117,975	\$ 400,766	\$ 2,639,550	

Note: Values above are totals for both arrays combined.