

Indian Grove - Trees Removed

Prepared For

Euclid Elementary
Ryan Berry
224-612-7302
solarRFP@naniaenergy.com

Proposal By

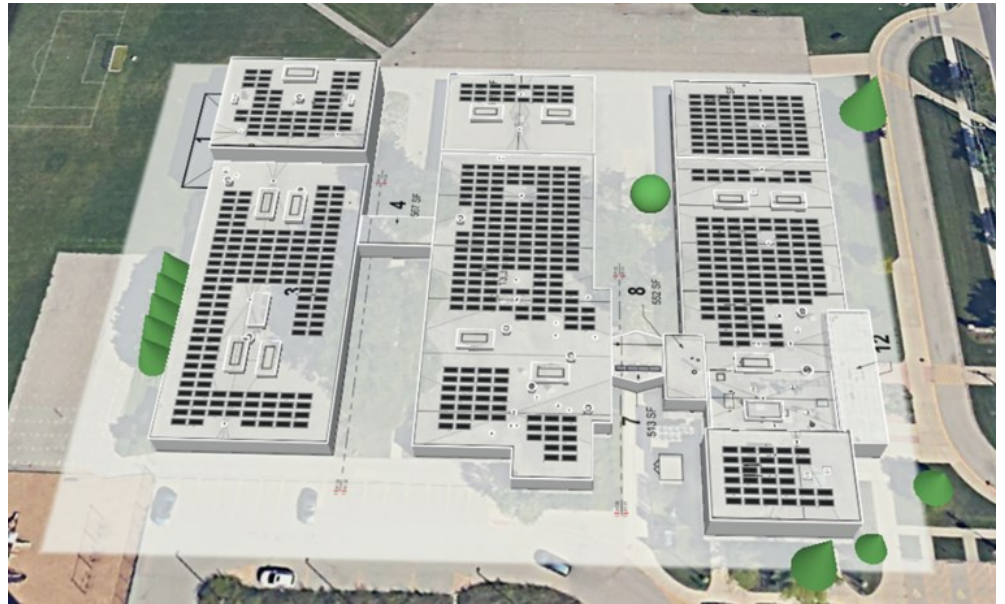
Rob Zaldivar
Vice President of Sales
773.797.4183
rzaldivar@93energy.com

Date

1/17/2025



93Energy provides turnkey commercial solar installation services in Illinois and across the country. Our team of industry-certified professionals will design and install your system with the utmost care and professionalism. We earn our high customer ratings and referrals.



About 93Energy

Founded in 2018, 93Energy is a national leader for turn-key Solar and Energy Storage solutions. Our offices, based in the Chicagoland area, provide Design + Build services for commercial customers that are looking to achieve energy savings and independence through renewable energy technology.

Our goal is simple:

People. Planet. Passion.

People: 93Energy is committed to supporting ALL of the people we work with: from customers, to employees, to subcontractors. We've built a team of talented individuals who can help our clients achieve their renewable energy future.

Planet: Our aim is to collectively leave the planet in a better state than it was in before we arrived. At 93Energy, we are environmentalists at heart, but we also understand that renewable solutions also need to be financially viable.

Passion: Our passion and dedication show through every interaction and in every aspect of our work. We are passionate about our work, and we're excited to work with you.

93Energy was born out of our parent company, Renovations Delivered. RD incorporated in 2010, and is a regional general contracting company focused on the multi-family and hospitality industry. The founders of RD and 93E, collectively, bring over 50 years of industry experience in market-rate and affordable real estate development, as well as commercial and residential construction.

93Energy continues the tradition of delivering projects on time, on budget, and with a high degree of integrity. We are excited about our clean energy future and we're eager to partner with your organization!



(Maxter Healthcare, Rosharon, TX - 3 MW)

Project Summary

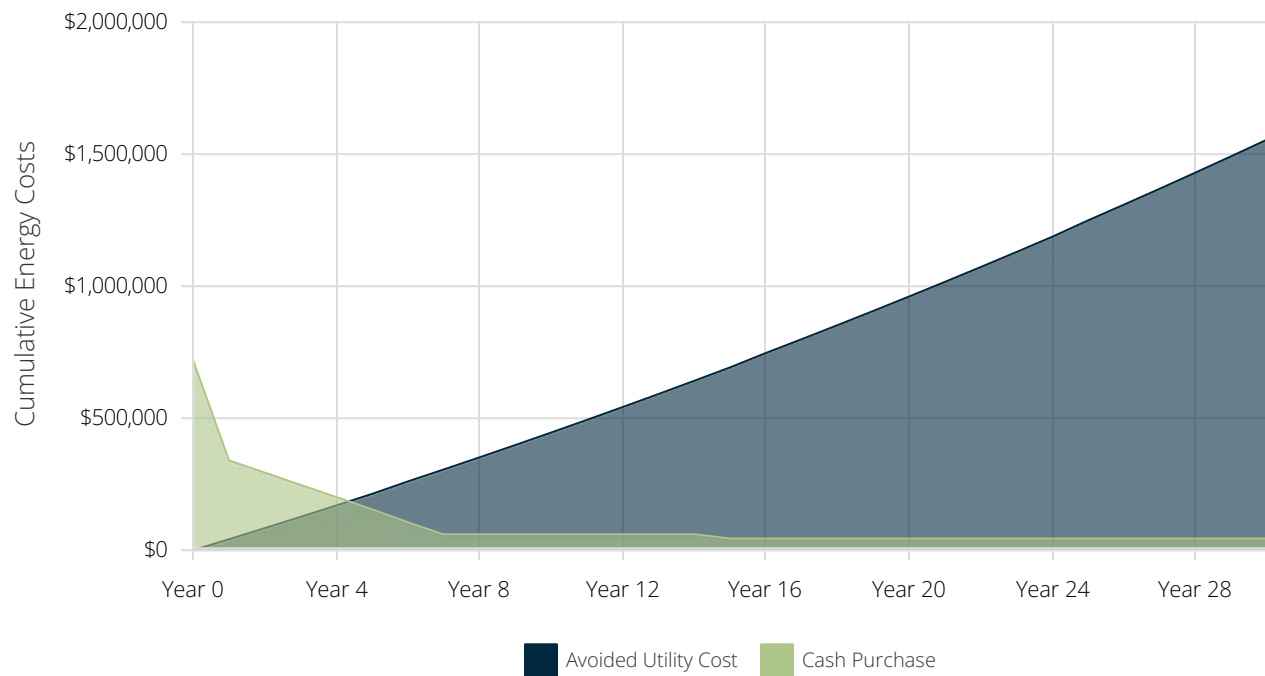
Payment Options	Cash Purchase
IRR - Term	17.6%
LCOE PV Generation	\$0.004 /kWh
Net Present Value	\$631,797
Payback Period	4.3 Years
Total Payments	\$720,000
Total Incentives	\$675,998
Net Payments	\$44,002
Electric Bill Savings - Term	\$1,554,973
Upfront Payment	\$720,000

Combined Solar PV Rating

Power Rating: 341,000 W-DC

Power Rating: 335,885 W-AC-CEC

Cumulative Energy Costs By Payment Option



PV System Details

General Information

Facility: Indian Grove Elementary
 Address: 1340 N Burning Bush Ln Mt Prospect IL 60056

Solar PV System Rating

Power Rating: 341,000 W-DC
 Power Rating: 335,885 W-AC-CEC

Solar PV Equipment Description

Solar Panels: (620) Vikram Solar VSMDH.72.550.05
 Inverters: (5) Chint Power Systems America SCA50KTL-DO/US-480

Energy Consumption Mix

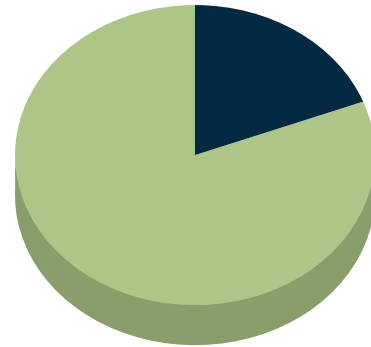
Annual Energy Use: 515,000 kWh

Solar PV Equipment Typical Lifespan

Solar Panels: Greater than 30 Years
 Inverters: 15 Years

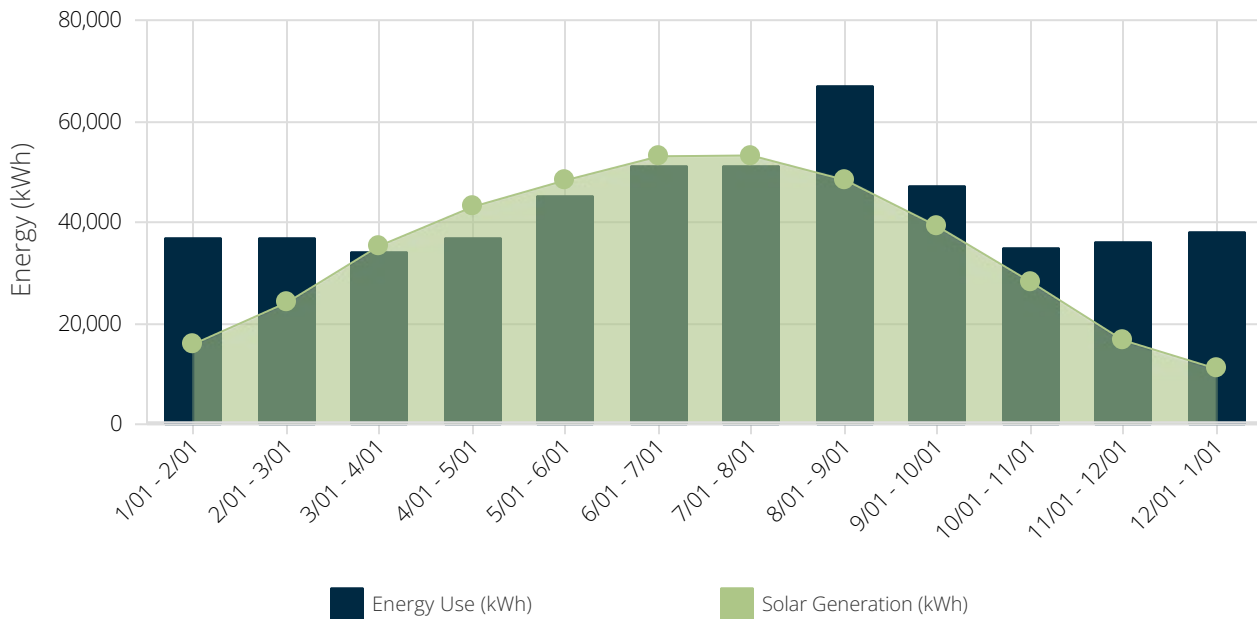
Solar PV System Cost and Incentives

Solar PV System Cost	\$720,000
Direct Pay ITC	-\$288,000
SMART Inverter Rebate	-\$85,250
Illinois ABP Incentive	-\$302,748
Net Solar PV System Cost	\$44,002



Utility	98,893 kWh (19.20%)
Solar PV	416,107 kWh (80.80%)

Monthly Energy Use vs Solar Generation



Rebates and Incentives

This section summarizes all incentives available for this project. The actual rebate and incentive amounts for this project are shown in each example.

Direct Pay, Investment Tax Credit (ITC) - 30% (with Adders)

The Inflation Reduction Act (IRA) of 2022 contains a "direct pay" provision that enables certain tax-exempt customers, including state and local government, to receive a direct cash payment in lieu of an investment tax credit (ITC). Entities that qualify for direct pay are eligible to receive a 30% direct payment, assuming they meet the IRA established prevailing wage and apprenticeship requirements in order to qualify for the full 30% "increased rate", rather than a 6% "base rate". The IRA states that direct pay is only available for entities, including: an entity exempt from the tax, any State government (or political subdivision thereof), the Tennessee Valley Authority, an Indian tribal government, an Alaska Native Corporation, any corporation operating on a cooperative basis which is engaged in furnishing electric energy to persons in rural areas. These entities may take direct pay for solar and storage in the ITC and PTC as well as the ITC/PTC when tech neutral starts after 2025. In addition to the 30% ITC, the IRA establishes three different types of ITC "Adders", which provide additional tax credits of up to 10% each, for projects that meet specified requirements. (1) Energy Community, projects sited in an "energy community", which includes brownfield sites, census tracts where a coal mine closed after 1999 or a coal-fired power plant was retired after 2009, or areas where 25% of local tax revenues are related to the extraction, processing or storage of coal, oil, or natural gas at any time beginning in 2010. (2) Low-income, projects located in a qualified "low-income community", which is defined as a census tract with a poverty rate of at least 20%, as well as a census tract where the median family income (MFI) is 80% or less of statewide MFI, or on "Indian land", which is defined as land located within the boundaries of an Indian reservation or lands held by a tribe. (3) Domestic Content, for projects that meet specified domestic content requirements which will be set by Treasury, including 100% steel/iron for manufactured products with a 40% requirement through 2024 followed by 45% in 2025, 50% in 2026, and 55% in 2027 and beyond. Manufactured content is further explained: the products which are components of a qualified facility upon completion will be deemed to have been produced in the United States if the adjusted percentage of the total costs of all such manufactured products of the facility are attributable to manufactured products which are mined, produced, or manufactured in the United States.

Total Incentive Value: \$288,000

Illinois Smart Inverter Rebate - 2023

Rebate Applicable to Participating IL Utilities. Customers receiving service under rate schedules DS-1 (Residential) & DS-2 (Small Commercial) the rebate for inverters used to interconnect generators are \$300/KW-PV DC. For Customer receiving service under rate schedules DS-3, DS-4 and DS-6 (Large Commercial & Industrial) the rebate for inverters used to interconnect generators are \$250/KW-PV DC Is available to both customers with existing generation and/or ESS at their home/business and to customers who will be installing that equipment in the future. Applicability For Other Participating Utilities May Not Be Specific to Rate Tariffs. There is a limit of 5mW AC for the rebate application

Total Incentive Value: \$85,250

Illinois ABP Distributed Generation (DG) - 2023

Illinois Shines is the brand name of the Illinois Adjustable Block Program (ABP), a state-administered program for new solar photovoltaic systems. The ABP Distributed Generation (DG) program provides payments in exchange for 15 years of Renewable Energy Credits ("RECs") generated by new PV systems. These payments, made by Illinois utilities, vary depending on the system's size and where it is located. Participating in Illinois Shines is the same thing as participating in the Adjustable Block Program. RECs represent the environmental value of the electricity generated from solar panels, but not the electricity itself. Whoever owns the RECs has the right to say they used that solar power. Utilities must purchase RECs to meet their obligation to supply a certain amount of power from renewable energy.

Total Incentive Value: \$302,748

Utility Rates

The table below shows the rates associated with your current utility rate schedule (Small Load). Your estimated electric bills after solar are shown on the following page.

Customer Charges				Energy Charges				Demand Charges			
Season	Charge Type	Rate Type	Small Load	Season	Charge Type	Rate Type	Small Load	Season	Charge Type	Rate Type	Small Load
S	Flat Rate	per billing period	\$26.17	S	Flat Rate	Import	\$0.02483	S	On Peak	Import	\$11.87
W	Flat Rate	per billing period	\$26.17	W	Flat Rate	Import	\$0.02288	W	On Peak	Import	\$11.87
S	Flat Rate: Charges Vary With Units	per billing period	\$1.00	S	Flat Rate	Import	\$0.0729				
W	Flat Rate: Charges Vary With Units	per billing period	\$1.00	W	Flat Rate	Import	\$0.0729				
S	Flat Rate: Charges Vary With Units	per billing period	\$1.00	S	T < 2,000 kw	Import	\$0.0033				
W	Flat Rate: Charges Vary With Units	per billing period	\$1.00	S	2,000 kw < T < 50,000 kw	Import	\$0.00319				
				S	50,000 kw < T	Import	\$0.00303				
				W	T < 2,000 kw	Import	\$0.0033				
				W	2,000 kw < T < 50,000 kw	Import	\$0.00319				
				W	50,000 kw < T	Import	\$0.00303				

Current Electric Bill

The table below shows your estimated annual electricity costs based on the most current utility rates and your previous 12 months of electrical usage.

Rate Schedule: ComEd - Small Load

Time Periods	Energy Use (kWh)	Max Demand (kW)	Charges				
			Other	NBC	Energy	Demand	Total
1/1/2023 - 2/1/2023 W	37,000	150	\$96	\$0	\$3,662	\$1,781	\$5,539
2/1/2023 - 3/1/2023 W	37,000	150	\$96	\$0	\$3,662	\$1,781	\$5,539
3/1/2023 - 4/1/2023 W	34,000	150	\$96	\$0	\$3,365	\$1,781	\$5,242
4/1/2023 - 5/1/2023 W	37,000	150	\$96	\$0	\$3,662	\$1,781	\$5,539
5/1/2023 - 6/1/2023 W	45,000	117	\$96	\$0	\$4,454	\$1,389	\$5,939
6/1/2023 - 7/1/2023 S	51,000	150	\$96	\$0	\$5,147	\$1,781	\$7,024
7/1/2023 - 8/1/2023 S	51,000	150	\$96	\$0	\$5,147	\$1,781	\$7,024
8/1/2023 - 9/1/2023 S	67,000	150	\$96	\$0	\$6,759	\$1,781	\$8,636
9/1/2023 - 10/1/2023 S	47,000	150	\$96	\$0	\$4,743	\$1,781	\$6,620
10/1/2023 - 11/1/2023 W	35,000	150	\$96	\$0	\$3,464	\$1,781	\$5,341
11/1/2023 - 12/1/2023 W	36,000	150	\$96	\$0	\$3,563	\$1,781	\$5,440
12/1/2023 - 1/1/2024 W	38,000	150	\$96	\$0	\$3,761	\$1,781	\$5,638
Total	515,000	-	\$1,154	-	\$51,390	\$20,974	\$73,519

New Electric Bill

Rate Schedule: ComEd - Small Load

Time Periods	Energy Use (kWh)	Max Demand (kW)	Charges				
			Other	NBC	Energy	Demand	Total
1/1/2023 - 2/1/2023 W	21,177	141	\$96	\$0	\$2,191	\$1,674	\$3,961
2/1/2023 - 3/1/2023 W	12,901	127	\$96	\$0	\$1,502	\$1,507	\$3,105
3/1/2023 - 4/1/2023 W	-1,279	81	\$96	\$0	\$335	\$961	\$1,392
4/1/2023 - 5/1/2023 W	-6,068	82	\$96	\$0	\$23	\$973	\$1,093
5/1/2023 - 6/1/2023 W	-3,273	73	\$96	\$0	\$301	\$867	\$1,263
6/1/2023 - 7/1/2023 S	-2,041	101	\$96	\$0	\$424	\$1,199	\$1,720
7/1/2023 - 8/1/2023 S	-2,220	112	\$96	\$0	\$481	\$1,329	\$1,907
8/1/2023 - 9/1/2023 S	18,650	143	\$96	\$0	\$2,387	\$1,697	\$4,181
9/1/2023 - 10/1/2023 S	7,775	120	\$96	\$0	\$1,276	\$1,424	\$2,796
10/1/2023 - 11/1/2023 W	6,858	108	\$96	\$0	\$1,012	\$1,282	\$2,390
11/1/2023 - 12/1/2023 W	19,362	107	\$96	\$0	\$2,060	\$1,270	\$3,426
12/1/2023 - 1/1/2024 W	27,048	149	\$96	\$0	\$2,762	\$1,769	\$4,627
Total	98,890	-	\$1,154	-	\$14,754	\$15,953	\$31,861

Annual Electricity Savings: \$41,657

Cash Purchase

Assumptions and Key Financial Metrics

IRR - Term	17.6%	Net Present Value	\$631,797	Payback Period	4.3 Years
ROI	209.9%	PV Degradation Rate	0.50%	Discount Rate	5.0%
Energy Cost Escalation Rate	2.0%	Federal Income Tax Rate	0.0%	State Income Tax Rate	0.0%
Total Project Costs	\$720,000				

Years	Cash					Total Cash Flow	Cumulative Cash Flow
	Project Costs	Electric Bill Savings	Direct Pay ITC	SMART Inverter Rebate	Illinois ABP Incentive		
Upfront	-\$720,000	-	-	-	-	-\$720,000	-\$720,000
1	-	\$41,657	\$288,000	\$85,250	\$6,581	\$421,489	-\$298,511
2	-	\$42,278	-	-	\$46,619	\$88,897	-\$209,614
3	-	\$42,907	-	-	\$46,619	\$89,526	-\$120,089
4	-	\$43,544	-	-	\$46,619	\$90,163	-\$29,926
5	-	\$44,189	-	-	\$46,619	\$90,808	\$60,882
6	-	\$44,843	-	-	\$46,619	\$91,462	\$152,344
7	-	\$45,506	-	-	\$46,619	\$92,124	\$244,469
8	-	\$46,176	-	-	-	\$46,176	\$290,645
9	-	\$46,856	-	-	-	\$46,856	\$337,501
10	-	\$47,544	-	-	-	\$47,544	\$385,045
11	-	\$48,241	-	-	-	\$48,241	\$433,286
12	-	\$48,947	-	-	-	\$48,947	\$482,233
13	-	\$49,662	-	-	-	\$49,662	\$531,895
14	-	\$50,385	-	-	-	\$50,385	\$582,280
15	-	\$51,118	-	-	\$16,454	\$67,572	\$649,852
16	-	\$51,860	-	-	-	\$51,860	\$701,712
17	-	\$52,612	-	-	-	\$52,612	\$754,324
18	-	\$53,372	-	-	-	\$53,372	\$807,696
19	-	\$54,142	-	-	-	\$54,142	\$861,838
20	-	\$54,922	-	-	-	\$54,922	\$916,760
21	-	\$55,711	-	-	-	\$55,711	\$972,471
22	-	\$56,509	-	-	-	\$56,509	\$1,028,980
23	-	\$57,317	-	-	-	\$57,317	\$1,086,297
24	-	\$58,135	-	-	-	\$58,135	\$1,144,432
25	-	\$58,963	-	-	-	\$58,963	\$1,203,395
26	-	\$59,800	-	-	-	\$59,800	\$1,263,195
27	-	\$60,648	-	-	-	\$60,648	\$1,323,843
28	-	\$61,505	-	-	-	\$61,505	\$1,385,348
29	-	\$62,373	-	-	-	\$62,373	\$1,447,721
30	-	\$63,250	-	-	-	\$63,250	\$1,510,971
Totals:	-\$720,000	\$1,554,973	\$288,000	\$85,250	\$302,748	\$1,510,971	-