

**On-Site Solar for ISD 200 Hastings Public Schools
On-Site Solar Projects
PV Credit with Solar for Schools Grant**



01/06/2025

About iDEAL Energies

iDEAL Energies is the premier Minneapolis-based commercial solar energy developer with 600+ commercial systems currently in operation and 100+ projects under construction.

iDEAL has(is) installed ~200 solar arrays at 60+ MN School Districts

Ideal has(is) installed ~80 Solar Projects using the Solar for Schools Program

Our seamless vertical integration allows us to develop, design, install, finance, and operate turn-key solar energy systems across multiple sectors including commercial for-profit businesses, non-profits, cities, counties, schools, and non-profits.

iDEAL's affiliated companies provide development, financing, project management, construction, operation and maintenance.



KIMBALL CUBS

NOMPENG ACADEMY
"Engineering. Policy. Action. Business."

BROOKLYN CENTER COMMUNITY SCHOOLS
 145 CHAMBERLAIN LANE, S.W.

WINDY RIVERS MONTESSORI
 EST. 2014

MLC Fresh

NMA NEW MILLENNIUM ACADEMY
 STUDENTS • INSTRUCTORS • SUPPORT • SUCCESSORS

Columbia HEIGHTS PUBLIC SCHOOLS

ISD 279 OSSEO AREA SCHOOLS
 UNITING COMMUNITIES OF EXCELLENCE

SUMMIT

MP S MINNEAPOLIS PUBLIC SCHOOLS
 Urban Education. Global Citizens.

BLAKE

EP EDEN PRAIRIE SCHOOLS

AURORA CHARTER SCHOOL

URBAN VENTURES

CRISTO REY JESU Y HIGH SCHOOLS

PA

RICHFIELD PUBLIC SCHOOLS

one91
 Future Ready. Community Strong.
 Burnsville. Eagan. Savage.

BLOOMINGTON PUBLIC SCHOOLS
 We help students thrive and dreams come alive.

Tracy Area Public Schools

BYRON

LA CRESCENT-HOKAH PUBLIC SCHOOLS



Solar for Schools Round #5 Program Steps Completed

1. February 2024 – Readiness Application submitted by iDEAL
2. March 5th, 2024 – Readiness Application Approved by DOC
3. March to April, 2024 – iDEAL completed Electrical Engineering. Structural Engineering and Civil Engineering are in progress.
4. April 2024 – Interconnection approval obtained by iDEAL
5. June 2024 – Final Grant Application submitted by iDEAL
6. July 2024 – Final Grant Application Approved by DOC
7. July 2024 – Final Grant Contract signed with DOC

Solar for Schools Round #5 Program Next Steps

1. Sign DocuSign Grant Contract Amendment with DOC for both projects to formally reserve funds
2. Comply with Bid Rules / Select Developer
3. Execute Solar Agreements
4. Construct Solar Arrays in the Summer/Fall, 2025

**Hastings Kennedy
Elementary
Ground Mount Array**
324.57 kWDC



Annual Savings Summary – Kennedy Elementary Ground mount Array PV Credit with SFS Grant

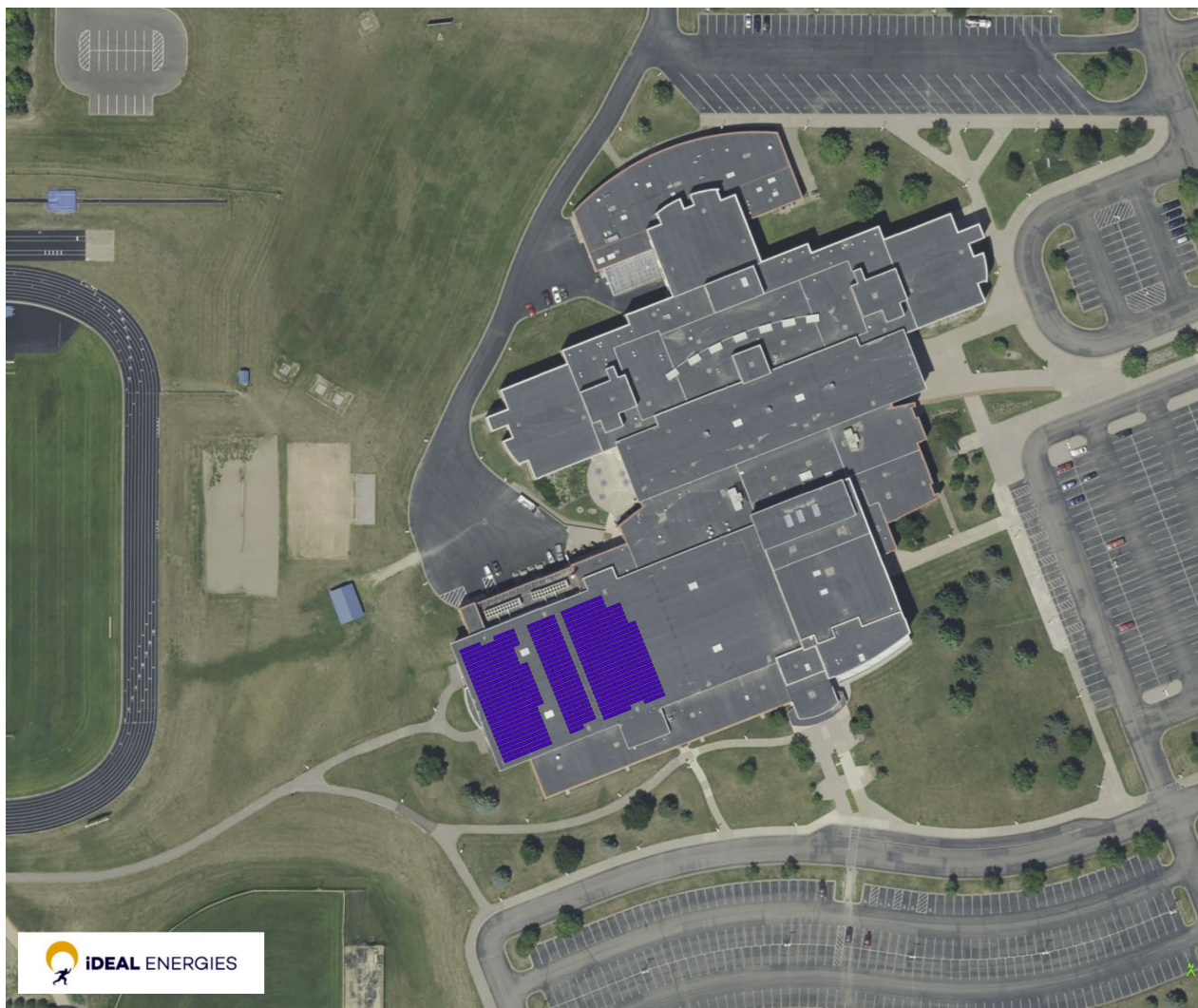
Year	Customer's Utility Savings and Rent Income		
	Utility Bill Savings	Rent Revenue	Total Annual Customer Revenue
Year 1	\$ 53,892	\$ 100	\$ 53,992
Year 2	\$ 55,528	\$ 100	\$ 55,628
Year 3	\$ 57,212	\$ 100	\$ 57,312
Year 4	\$ 58,948	\$ 100	\$ 59,048
Year 5	\$ 60,737	\$ 100	\$ 60,837
Year 19	\$ 92,299	\$ 100	\$ 92,399
Year 20	\$ 95,100	\$ 100	\$ 95,200
Year 21	\$ 97,985	\$ -	\$ 97,985
Year 29	\$ 124,455	\$ -	\$ 124,455
Year 30	\$ 128,232	\$ -	\$ 128,232
Year 31	\$ 132,122	\$ -	\$ 132,122
Year 38	\$ 162,873	\$ -	\$ 162,873
Year 39	\$ 167,815	\$ -	\$ 167,815
Year 40	\$ 172,906	\$ -	\$ 172,906
TOTAL	\$ 4,095,254	\$ 2,000	\$ 4,097,254

Customer's Expenses		
Energy Payment to Ideal (subject to sales tax)	Insurance, Maintenance Expense & Utility Fees	Total Annual Expenses
\$ (16,106)	\$ (800)	\$ (16,906)
\$ (16,595)	\$ (816)	\$ (17,411)
\$ (17,099)	\$ (832)	\$ (17,931)
\$ (17,617)	\$ (849)	\$ (18,466)
\$ (18,152)	\$ (866)	\$ (19,018)
\$ (27,585)	\$ (1,143)	\$ (28,727)
\$ (28,422)	\$ (1,165)	\$ (29,587)
\$ -	\$ (6,362)	\$ (6,362)
\$ -	\$ (8,205)	\$ (8,205)
\$ -	\$ (8,471)	\$ (8,471)
\$ -	\$ (61,012)	\$ (61,012)
\$ -	\$ (10,949)	\$ (10,949)
\$ -	\$ (11,307)	\$ (11,307)
\$ -	\$ (11,678)	\$ (11,678)
\$ (434,296)	\$ (277,028)	\$ (711,324)

Annual Savings	
Total Annual Energy Expense Savings	Total Cumulative Annual Energy Expense Savings
\$ 37,086	\$ 37,086
\$ 38,216	\$ 75,302
\$ 39,381	\$ 114,684
\$ 40,582	\$ 155,266
\$ 41,819	\$ 197,085
\$ 63,672	\$ 905,677
\$ 65,613	\$ 971,290
\$ 91,623	\$ 1,062,913
\$ 116,250	\$ 1,902,886
\$ 119,760	\$ 2,022,646
\$ 71,110	\$ 2,093,757
\$ 151,924	\$ 3,068,194
\$ 156,507	\$ 3,224,701
\$ 161,229	\$ 3,385,930
\$ 3,385,930	

Cumulative energy expense savings of...
 ~\$971,290 during years 1-20 [lease term]
 ~\$2,022,646 during years 1-30 [panel warranty]
 ~\$3,385,930 during years 1-40 [system life]

**Hastings High School
Rooftop Array
240.0 kWDC**



Annual Savings Summary – High School Rooftop Array PVCredit with SFS Grant

Year	Customer's Utility Savings and Rent Income		
	Utility Bill Savings	Rent Revenue	Total Annual Customer Revenue
Year 1	\$ 35,912	\$ 100	\$ 36,012
Year 2	\$ 37,002	\$ 100	\$ 37,102
Year 3	\$ 38,125	\$ 100	\$ 38,225
Year 4	\$ 39,282	\$ 100	\$ 39,382
Year 5	\$ 40,474	\$ 100	\$ 40,574

Year 19	\$ 61,506	\$ 100	\$ 61,606
Year 20	\$ 63,372	\$ 100	\$ 63,472
Year 21	\$ 65,295	\$ -	\$ 65,295

Year 29	\$ 82,933	\$ -	\$ 82,933
Year 30	\$ 85,449	\$ -	\$ 85,449
Year 31	\$ 88,042	\$ -	\$ 88,042

Year 38	\$ 108,533	\$ -	\$ 108,533
Year 39	\$ 111,826	\$ -	\$ 111,826
Year 40	\$ 115,219	\$ -	\$ 115,219
TOTAL	\$ 2,728,957	\$ 2,000	\$ 2,730,957

Customer's Expenses		
Energy Payment to Ideal (subject to sales tax)	Insurance, Maintenance Expense & Utility Fees	Total Annual Expenses
\$ (10,638)	\$ (600)	\$ (11,238)
\$ (10,961)	\$ (612)	\$ (11,573)
\$ (11,293)	\$ (624)	\$ (11,918)
\$ (11,636)	\$ (637)	\$ (12,273)
\$ (11,989)	\$ (649)	\$ (12,639)

\$ (18,219)	\$ (857)	\$ (19,076)
\$ (18,772)	\$ (874)	\$ (19,646)
\$ -	\$ (4,752)	\$ (4,752)

\$ -	\$ (6,128)	\$ (6,128)
\$ -	\$ (6,326)	\$ (6,326)
\$ -	\$ (6,532)	\$ (6,532)

\$ -	\$ (8,176)	\$ (8,176)
\$ -	\$ (8,443)	\$ (8,443)
\$ -	\$ (8,720)	\$ (8,720)
\$ (286,847)	\$ (192,076)	\$ (478,923)

Annual Savings	
Total Annual Energy Expense Savings	Total Cumulative Annual Energy Expense Savings
\$ 24,774	\$ 24,774
\$ 25,529	\$ 50,304
\$ 26,307	\$ 76,611
\$ 27,109	\$ 103,720
\$ 27,935	\$ 131,655

\$ 42,529	\$ 614,036
\$ 43,826	\$ 657,862
\$ 60,543	\$ 718,405

\$ 76,805	\$ 1,258,496
\$ 79,123	\$ 1,337,619
\$ 81,510	\$ 1,419,129

\$ 100,357	\$ 2,042,152
\$ 103,383	\$ 2,145,535
\$ 106,500	\$ 2,252,034
\$ 2,252,034	

Cumulative energy expense savings of...
 ~\$657,862 during years 1-20 [lease term]
 ~\$1,337,619 during years 1-30 [panel warranty]
 ~\$2,252,034 during years 1-40 [system life]

Combined Annual Savings Summary

Solar Array System Summary			
Site	Kennedy Elementary	Hastings High School	System Sizing - All Projects
Solar Program	SFS & PVCredit	SFS & PVCredit	Total kW DC / kW AC
kW DC	325	242	567

Net Annual Cashflow			Net Annual Cashflow	
Year	Kennedy Elementary	Hastings High School	Total	Cumulative
Year 1	\$37,086	\$24,774	\$61,860	\$61,860
Year 2	\$38,216	\$25,529	\$63,746	\$125,606
Year 3	\$39,381	\$26,307	\$65,689	\$191,295
Year 4	\$40,582	\$27,109	\$67,691	\$258,986
Year 5	\$41,819	\$27,935	\$69,754	\$328,740

Year 19	\$63,672	\$42,529	\$106,201	\$1,519,714
Year 20	\$65,613	\$43,826	\$109,438	\$1,629,152
Year 21	\$91,623	\$60,543	\$152,166	\$1,781,318

Year 29	\$116,250	\$76,805	\$193,055	\$3,161,382
Year 30	\$119,760	\$79,123	\$198,883	\$3,360,265
Year 31	\$71,110	\$81,510	\$152,621	\$3,512,886

Year 38	\$151,924	\$100,357	\$252,281	\$5,110,346
Year 39	\$156,507	\$103,383	\$259,890	\$5,370,236
Year 40	\$161,229	\$106,500	\$267,729	\$5,637,964
Total	\$3,385,930	\$2,252,034	\$5,637,964	

Ideal's Solar Curriculum for Students

iDEAL provides all its school customers a science-based Solar Energy Education Curriculum that engages students in the real work of STEM professionals to help develop their understanding of solar energy, STEM careers, teamwork, design, and real-world issues for years.

iDEAL's Education Curriculum is aligned with future Minnesota State Standards, Next Generation Science Standards, and 21st Century Learning Frameworks.

GOOD NEWS!

iDEAL's education team is ready to assist your District with implementing the Curriculum!

Current Power 85.79 kW	Energy today 976.98 kWh	Energy this month 37.86 MWh	Lifetime energy 155.67 MWh
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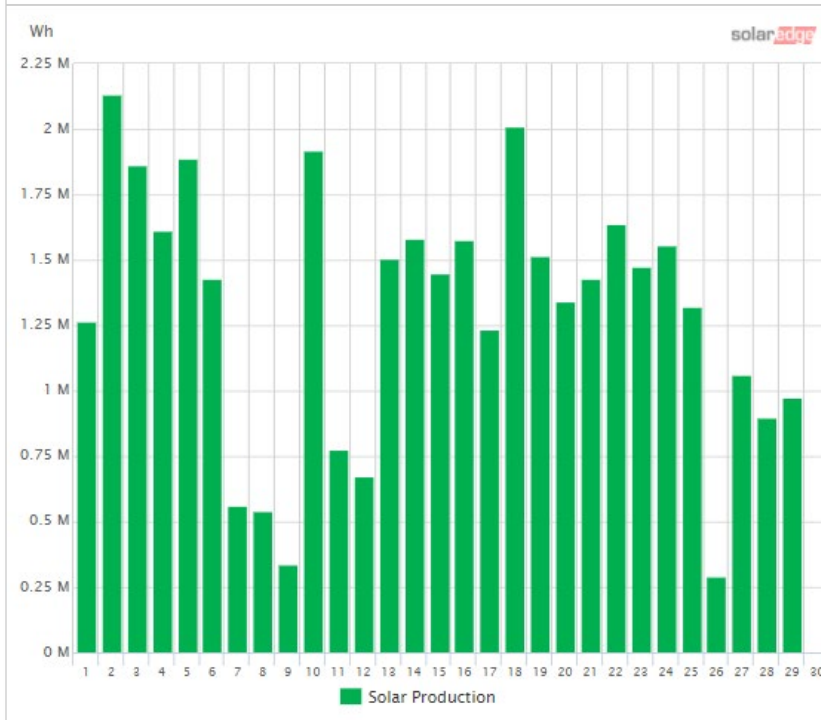


Power and Energy

Day Week **Month** Billing Cycle Year

09/01/2020 - 09/30/2020

System Production: **37.86 MWh**



Site Status	
ID	1576743
Name	
Address	
Installed	04/13/2020
Last Updated	09/29/2020 15:54
Peak Power	300 kWp

Cloudy
60 °F
Feels like 60 °F
Wind SSE, 7 MPH
Humidity 60 %
Sunrise at 07:10
Sunset at 18:57

Tuesday 61 - 48 °F Mostly Cloudy	Wednesday 57 - 45 °F 30% Chance of Rain	Thursday 48 - 36 °F Mostly Cloudy
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Environmental Benefits

CO2 Emission Saved
241,041.77 lb

Equivalent Trees Planted
1,821.29

Monitor your solar array's performance and demonstrate your District's sustainability goals with web-based monitoring tools.

Utilize each school's real time web-based monitoring in the classroom as part of its solar curriculum.

GOOD NEWS!

Our monitoring solution already meets the requirements of the Solar for Schools program.

Ideal's Solar Program

1. District owns the arrays day 1 and at all times
2. No upfront cost
3. Ideal monetizes the Tax Credit for the District and applies it to help pay for the installation cost
4. The District's only financial obligation is to pay Ideal Energies for a 20-year term during which the School will realize significant electric expense savings
5. Free energy after year 20
6. iDEAL Energies monitors, operates and maintains the solar arrays for the District during 20-year term

SFS Round 5 Bidding Options

Originally Proposed by iDEAL – Guaranteed Energy Savings Contract

- Negotiate Solar Agreements (Guaranteed Energy Savings Contract)
- Provide published legal notice of the District's intent to enter into a Guaranteed Energy Savings Contract with iDEAL ^{NOTE}
- Execute Solar Agreements

NOTE

SFS Round 5 Rules allow Applicants to use guaranteed energy savings contracts as specified in MS 471.345, subd 13. This requires that a single publication of the District's intent to enter into a guaranteed energy savings contract with iDEAL.

iDEAL has used the above approach for multiple SFS Projects. In doing so, we have successfully negotiated agreements with all of our clients' council.

SFS Round 5 Bidding Options Continued

Public RFP Option:

- Prepare RFP Document for RFP Public solicitation
- Provide 2-week published legal notice of RFP
- Evaluate Proposals and choose your solar developer
- Finalize Solar Agreements

**GET IN
TOUCH!**



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Supplemental information documenting assumptions in this presentation are available upon request

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