

School Board Regular Business Meeting

Monday, September 26, 2022 6:00 PM

Shakopee High School Thrust Stage, 100 17th Avenue West, Shakopee, MN 55379

1. CALL TO ORDER SCHOOL BOARD BUSINESS MEETING AND ROLL CALL - CHAIR PETERSON

2. PLEDGE OF ALLEGIANCE

3. SABER PRIDE

3.1. National Merit Recognition

Presenter: Erin Heilman, High Potential and Innovative Programs Coordinator, AVID District Coordinator

4. CONSIDERATION OF AGENDA AS PRESENTED

5. PUBLIC COMMENT

6. CONSENT ITEMS

6.1. Personnel Items

6.2. Approval of School Board Meeting Minutes

6.3. Consideration of Bills and Authorization to Pay Same

6.4. Approval of Wires Report

7. INFORMATION

7.1. School Year Highlights - Shakopee High School

Presenter: Jeff Pawlicki, Shakopee High School Principal

8. ACTION

8.1. Solar Project- Sweeney Elementary School

Presenter: Mike Redmond; Greg Drent (Shakopee Public Utilities)

8.2. Solar Project- East Middle School

Presenter: Mike Redmond; Greg Drent (Shakopee Public Utilities)

8.3. Lease Agreement - Barracuda Aquatics Club

Presenter: Lisa Rahn, Director of Community Education

8.4. Health Assistant Contract Agreement

Presenter: Keith Gray, Director of Human Resources

8.5. Preliminary Approval Truth in Taxation -- Current District Obligations

Presenter: Bill Menozzi, Director of Finance

9. FIRST READING

Presenter: Jeff Smith

10. **ACTION**

10.1. SRO Agreement

Presenter: Mike
Redmond

11. **INFORMATION**

11.1. District Update

Presenter: Mike
Redmond

12. **COMMITTEE REPORTS & OTHER INFORMATION**

13. **UPCOMING MEETINGS AND IMPORTANT DATES**

14. **ADJOURNMENT**



Check Number	Check Date	Name	Check Amount	Invoice/Account	Description
300379	08/17/2022	Innovative Graphics	720.00	52038	SHAKOPEE GIRLS TENNIS SHIRTS
				50 E 083 296 301 401 916	
300380	08/17/2022	Kovic, Michael R	47.97	08.01.22	CHORUS GROUP; MICHAELS - PICTURE FRAME AND MAT
				50 E 083 298 301 401 951	
				08.01.22.2	CHORUS GROUP; ARROW HARDWARE - TAPE MEASURE
				50 E 083 298 301 401 951	
300381	08/17/2022	MinnesotaNICE Water, LLC	775.00	1728	CONCESSIONS; GATORADE
				50 E 083 298 301 401 972	
300382	08/30/2022	1st Line Group	1,724.00	143079	CONCESSIONS
				50 E 083 298 301 401 972	
				143140	CONCESSIONS
				50 E 083 298 301 401 972	
300383	08/30/2022	Grandtours Inc	3,622.48	230605	SHS SPRING CHOIR CONCESSIONS FUNDRAISING
				50 E 083 298 301 366 990	
				230607	SHS CHOIR FALL 21; CULVERS FUNDRAISER
				50 E 083 298 301 366 990	
300384	08/30/2022	Palkert, Kirsten D	350.00	07.27.22	CHEERLEADING CHOREOGRAPHY
				50 E 083 296 301 305 902	

Check Number	Check Date	Name	Check Amount	Invoice/Amount	Description
757537	08/11/2022	Abrakadoodle	1,618.00		
				2369	COLORFUL KIDS, ART EXPLOSION , ULTIMATE SHARK - SUMMER CAMPS
				04 E 500 585 332 305 000	
757538	08/11/2022	Action Fence Inc	600.00		
				22427	EMS; REPAIR SECTION OF BUFFTECH FENCE AROUND TRANSFORMERS
				01 E 085 810 000 305 000	
757539	08/11/2022	Advanced Imaging Solutions	14,317.88		
				478580236	JULY PRINTING CHARGES
				01 E 083 420 000 430 000	
				01 E 083 690 000 430 000	
				01 E 084 605 000 430 000	
				01 E 085 050 000 401 000	
				01 E 086 211 303 430 000	
				01 E 200 412 422 401 000	
				01 E 200 420 419 401 000	
				01 E 200 640 308 401 000	
				01 E 200 680 000 401 000	
				01 E 860 050 000 401 000	
				01 E 861 203 000 430 000	
				01 E 864 203 000 381 000	
				01 E 865 203 000 430 000	
				01 E 866 050 000 401 000	
				02 E 005 770 701 401 000	
				04 E 500 505 321 401 000	
				05 E 200 630 795 555 000	
				478581879	CONTRACT PAYMENT 07.20-08.20
				05 E 005 850 302 555 000	
757540	08/11/2022	Agile Sports Technologies, Inc.	20,000.00		
				INV01323548	HUDL AD PACKAGE
				01 E 083 292 000 820 300	
757541	08/11/2022	AGiRepair, Inc.	1,863.00		
				028726	13" DAMAGED LCD SCREEN
				01 E 200 680 000 350 000	
				028768	13" DAMAGED LCD SCREEN
				01 E 200 680 000 350 000	
				028839	13" DAMAGED LCD SCREEN
				01 E 200 680 000 350 016	
757542	08/11/2022	Am Pest Control Llc	1,098.00		
				338055	ALL LOCATIONS; PEST CONTROL
				01 E 005 810 000 305 000	
				01 E 083 810 000 305 000	
				01 E 084 810 000 305 000	
				01 E 085 810 000 305 000	
				01 E 086 810 303 305 000	
				01 E 860 810 000 305 000	
				01 E 861 810 000 305 000	

				01 E 863 810 000 305 000	
				01 E 864 810 000 305 000	
				01 E 865 810 000 305 000	
				01 E 866 810 000 305 000	
757543	08/11/2022	Anchor Paper	75.10		
				10691765-02	DO; PAPER
				01 E 005 170 000 401 000	
757544	08/11/2022	Anderson, Alice Marie	324.00		
				08.09.22	PRIVATE BAND LESSONS
				04 E 500 585 332 305 000	
757545	08/11/2022	Anderson, Christopher	486.00		
				08.09.22	PRIVATE BAND LESSONS
				04 E 500 585 332 305 000	
757546	08/11/2022	Apple Ford Shakopee	788.67		
				FOCQ782555	THE WORKS VEHICLE CHECK UP
				04 E 500 249 321 442 000	
				FOCQ782561	THE WORKS VEHICLE CHECK UP
				04 E 500 249 321 442 000	
				FOCQ784947	REPLACE 4 TIRES
				04 E 500 249 321 442 000	
757547	08/11/2022	Arnquist Home Center Inc	246,582.62		
				PAY APP 4	SUN PATH CARPET REPLACEMENT
				05 E 861 865 379 522 000	
757548	08/11/2022	AspirEDU, INC.	20,060.00		
				15664	Grade Guardian/Drop Out Detective Renewal INVOICE # 15664
				05 E 200 680 302 406 000	
757549	08/11/2022	Batteries R Us	299.98		
				51188	JACKSON; OUTSIDE AND EMERGENCY LIGHT BATTERIES
				01 E 866 810 000 401 000	
757550	08/11/2022	Bix Produce Company	687.70		
				05471687	WMS; ASSORTED FRUITS AND VEGGIES
				02 E 005 770 709 490 000	
757550	08/11/2022	Bix Produce Company	687.70		
				05471707	JACKSON; ASSORTED FRUIT, CARROTS
				02 E 005 770 709 490 000	
				05478224	JACKSON; ASSORTED FRUITS AND VEGGIES
				02 E 005 770 709 490 000	
757551	08/11/2022	BLUUM of Minnesota LLC	13,819.96		
				874794	FrontRow Systems for EAST Quote #233472
				05 E 200 630 795 530 000	
				875142	FrontRow Systems for WEST Quote # 233613
				05 E 200 630 795 530 000	

757552	08/11/2022	Bsn Sports	1,000.83	917689403	MEDIUM AND LARGE SOCCER SOLIDS AND GOLAZO
				01 E 083 294 000 410 335	
757553	08/11/2022	Btu Services, Inc	1,619.96	00010493	DELIMER DESCALER, ENZIP/ BETA DRAIN LINE OPENER, CITRUS DEGREASER
				02 E 005 770 701 401 000	
757554	08/11/2022	Catalyst Sourcing Solutions	2,309.99	4798	SUPPLIER TRACKER MONTHLY
				01 E 005 110 000 305 000	
				02 E 005 770 701 305 000	
757555	08/11/2022	Cdw Government	24,936.41	BT18995	CorelDraw Renewal 22-23 Quote # MVWV382
				05 E 200 211 302 562 000	
757555	08/11/2022	Cdw Government	24,936.41	BT40914	Adobe renewal FY22-23 Quote # MWJZ300
				05 E 200 630 795 406 000	
757556	08/11/2022	Centurylink	2,664.55	612E40-0305 08.01.22	MONTHLY CHARGES
				01 E 200 680 000 320 000	
				9524035940 08.01.22	MONTHLY CHARGES
				01 E 200 680 000 320 000	
				9524037294 08.01.22	MONTHLY CHARGES
				01 E 200 680 000 320 000	
				9524450995 07.25.22	MONTHLY PAYMENT
				01 E 200 680 000 320 000	
				9524451177 07.25.22	MONTHLY PAYMENT
				01 E 200 680 000 320 000	
				9524452152 07.25.22	MONTHLY PAYMENT
				01 E 200 680 000 320 000	
				9524454682 07.25.22	MONTHLY PAYMENT
				01 E 200 680 000 320 000	
				9524456609 07.25.22	MONTHLY PAYMENT
				01 E 200 680 000 320 000	
				9524458004 07.07.22	MONTHLY CHARGES
				01 E 005 810 000 320 000	
757556	08/11/2022	Centurylink	2,664.55	9524458095 07.25.22	MONTHLY PAYMENT
				01 E 200 680 000 320 000	
				9524965752 07.19.22	MONTHLY PAYMENT
				01 E 200 680 000 320 000	
757557	08/11/2022	CESO Finance, LLC	9,537.35	1090	FINANCIAL MANAGEMENT SERVICES
				01 E 005 110 000 305 000	
757558	08/11/2022	Choice Electric, Inc	468.82		

				21933	HS; GROUND 2 NEW SWITCHES IN THE IT ROOM
				01 E 083 810 000 305 000	
				01 E 083 810 000 401 000	
				21963	SWEENEY; REMOVE EXIT LIGHT AND MOUNT J BOX
				01 E 860 810 000 305 000	
757559	08/11/2022	Crisis Prevention Institute	5,458.60		
				CUS0803086	BLENDED LEARNING ONLINE COURSE
				01 E 200 420 419 366 640	
757560	08/11/2022	Culligan Bottled Water	10.25		
				114X87450702	BOTTLED WATER EQUIPMENT RENTAL SERVICE
				01 E 086 810 303 305 000	
757561	08/11/2022	Dave's Valley Sports	1,146.51		
				2962	MI CASA T SHIRTS
				04 E 500 585 362 430 000	
757562	08/11/2022	Dock & Door Tec, Inc	1,523.25		
				015553	EMS; FIRE DOOR DROP TEST
				01 E 085 810 000 305 000	
757563	08/11/2022	Drayna, Caitlin M	474.00		
				08.09.22	PRIVATE BAND LESSONS
				04 E 500 585 332 305 000	
757564	08/11/2022	Educators Benefit Consultants	986.74		
				24079	JUNE; ACS TPA MONTHLY FEE; 403B ADMIN & COMPLIANCE MONTHLY FEE
				01 E 005 030 000 305 000	
				24524	JULY; ACS TPA MONTHLY FEE; 403B ADMIN & COMPLIANCE MONTHLY FEE
				01 E 005 030 000 305 000	
757565	08/11/2022	Follett Educational Services	1,131.60		
				2629126A	JACKSON; VOL 1 & 2 MATH EXPRESSIONS
				01 E 866 203 000 460 000	
757566	08/11/2022	Fun Engineerz LLC	3,802.50		
				2207	CE; 3D PRINTING - BUILDING YOUR OWN ROBOT
				04 E 500 585 332 305 000	
				2218	ESCAPE TO HOGWARTS 08.01-08.04
				04 E 500 585 332 305 000	
757567	08/11/2022	General Audit Tool Ltd	9,846.00		
				3589	GAT Renewal 22-23 QUOTATION NO.3877
				05 E 200 680 302 563 000	
757568	08/11/2022	General Parts , Inc	5,945.00		
				6352037	JULY COOKING & REFRIGERATION PM BILLING

757569	08/11/2022	Grill, Kelly	648.00	02 E 005 770 701 352 000	
				08.09.22	PRIVATE BAND LESSONS
757570	08/11/2022	GSI	71.23	04 E 500 585 332 305 000	
				34869	ALUMINUM LETTER, PAINTED SILVER METALLIC STUD MOUNT
757571	08/11/2022	Harwood, Alison	35.75	01 E 083 810 000 401 000	
				08.01.22	FOOD SERVICE REFUND #309774
757572	08/11/2022	Hillyard / Hutchinson	854.25	02 R 005 000 701 601 000	
				604817334	PEARSON; PAD COMP
				01 E 863 810 000 401 000	
				604820454	EMS; CONCRETE PRIMER, CONCRETE SEAL, MOP, DEGREASER
				01 E 085 810 000 401 000	
				604828060	EMS; CONCRETE SEALS
757573	08/11/2022	Impacks LLC	8,529.43	01 E 085 810 000 401 000	
				5	4TH AND 5TH GRADE SCHOOL SUPPLIES
757574	08/11/2022	Independent School Dist #622	3,017.16	01 E 865 298 000 401 000	
				SS2275-1	GEN ED HOURS OF SERVICE
				01 E 200 794 000 390 000	
757575	08/11/2022	Infinite Campus, Inc	124,315.45	ANNUAL038323	SIS, Messenger, Food Service, Cloud Choice, Passport, Data Warehouse ETC
757576	08/11/2022	INNOVATIONAL WATER SOLUTIONS, INC.	148.00	05 E 200 680 302 406 000	
				12929	HYDRONIC SYSTEM MANAGEMENT PROGRAM
757577	08/11/2022	Innovative Office Solutions	2,615.13	01 E 085 810 000 305 000	
				IN2892891	WMS; PENS
				01 E 084 050 000 401 000	
				IN3873090	PEARSON; CLEANER
				01 E 863 810 000 401 000	
				IN3873539	SWEENEY; GLOVES, PAD, CLEANER
				01 E 860 810 000 401 000	
				IN3875408	WMS; CALENDAR, BATTERIES
				01 E 084 050 000 401 000	
				IN3877055	EC; SEALER, CLEANER, GLOVES, PADS
				01 E 865 810 000 401 000	
				IN3878290	HS; LINER X3
				01 E 083 810 000 401 000	

IN3883224	PEARSON; STRIP PAD, POLISH PAD
01 E 863 810 000 401 000	
IN3883939	EC; DISPENSER, CLEANER
01 E 865 810 000 401 000	
IN3884208	DO; RUBBERBANDS
01 E 005 170 000 401 000	
IN3890690	EC; CLEANING PAD, LINER X2
01 E 865 810 000 401 000	
IN8380292	EC; FLOOR STRIP
01 E 865 810 000 401 000	

757578	08/11/2022	Insight Public Sector, Inc	55,760.15
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1100962475	Access point order with trade in Quote Number: QUOTE00455755v4 Shakopee PS - (25) 3802 & DNA CISCO AGENT - STATE OF MINNESOTA TELECOM NETWORKING-EDU(# 147097)
05 E 200 630 795 530 000	
1100962480	Erate 471 Year 2022-2023 - Network Implementations QUOTE 00445800v4 CISCO AGENT - STATE OF MINNESOTA TELECOM NETWORKING- GOVT(# 147097) LI 1-39 Open Market LI 40
05 E 200 630 795 556 000	
1100963792	Access point order with trade in Quote Number: QUOTE00455755v4 Shakopee PS - (25) 3802 & DNA CISCO AGENT - STATE OF MINNESOTA TELECOM NETWORKING-EDU(# 147097)
05 E 200 630 795 530 000	
1100963794	Erate 471 Year 2022-2023 - Network Implementations QUOTE 00445800v4 CISCO AGENT - STATE OF MINNESOTA TELECOM NETWORKING- GOVT(# 147097) LI 1-39 Open Market LI 40

757579	08/11/2022	Johnson Controls	3,377.88
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05 E 200 630 795 556 000	
88978634	JACKSON; WORK ON GAMEWELL PROGRAM
05 E 866 865 363 305 000	
88990056	WMS; WORK ON SIMPLEX 4100/4020 FIRE ALARM SYSTEM

				05 E 084 865 363 305 000 88990101	JACKSON; WORK ON WET SPRINKLER SYSTEM
				05 E 866 865 363 305 000	
757580	08/11/2022	Jostens Inc	9.36	29048698	DIPLOMA
				01 E 083 790 000 849 000	
757581	08/11/2022	Kemps LLC	792.70	102492734	JACKSON; 1%, CHOC
				02 E 005 770 709 495 000	
				102492735	EMS; 1, CHOC
				02 E 005 770 709 495 000	
				102492737	PEARSON; 1%, CHOC
				02 E 005 770 709 495 000	
				102500243	EMS; 1%, CHOC
				02 E 005 770 709 495 000	
				102500245	HS; 1%, CHOC
				02 E 005 770 709 495 000	
				102500247	JACKSON; 1%, CHOC
				02 E 005 770 709 495 000	
				102500249	PEARSON; 1%, CHOC
				02 E 005 770 709 495 000	
757582	08/11/2022	Kroells, Linda	828.00	08.01.22	BEGINNER & ADVANCED TAE KWON DO CLASSES
				04 E 500 585 332 305 000	
757583	08/11/2022	Lach, Theavy	100.00	07.21.22	INTERPRETER; HOME VISIT 07.21.22
				01 E 200 412 740 394 000	
				08.01.22	INTERPRETER; PEARSON ASSESSMENT 08.01.22
				01 E 200 412 419 358 000	
757584	08/11/2022	Lampinen, Stephnora	82.80	08.02.22	FOOD SERVICE REFUND #308162
				02 R 005 000 701 601 000	
757585	08/11/2022	Liberty Mutual Insurance	71,109.00	14314097	INSTALLMENT 4
				01 E 005 940 000 340 000	
757586	08/11/2022	Lyren, Delon	1,080.00	08.09.22	PRIVATE BAND LESSONS
				04 E 500 585 332 305 000	
757587	08/11/2022	Mackin Educational Resources	115.36	753903	SP; 6 TITLES
				05 E 200 620 302 470 203	
757588	08/11/2022	Mei Total Elevator Solutions	1,335.33	974060	JACKSON; 1.5 HRS LABOR ON ELEVATOR
				01 E 866 810 000 305 000	
				976344	MONTHLY ELEVATOR MAINTENANCE; AUGUST

01 E 083 810 000 305 000
 01 E 084 810 000 305 000
 01 E 085 810 000 305 000
 01 E 860 810 000 305 000
 01 E 861 810 000 305 000
 01 E 863 810 000 305 000
 01 E 864 810 000 305 000
 01 E 865 810 000 305 000
 01 E 866 810 000 305 000

757589	08/11/2022	MRI INTERMEDIATE HOLDINGS, LLC	485.00	MRIUS1190205	DIRECT CHILD/STAFF SCREENS
				01 E 005 030 000 305 000	
757590	08/11/2022	Music Theatre International	4,185.00	9751200	FIDDLER ON THE ROOF; STANDARD ORCHESTRATION
				01 E 083 291 000 410 370	
757591	08/11/2022	National Inventors Hall of Fame, INC.	7,875.00	2133101	CAMP INVENTION REGISTRATIONS
				04 E 500 585 332 305 000	
757592	08/11/2022	Norcostco	186.50	195879	HPL 750/115 LAMP
				05 E 083 291 302 530 000	
757593	08/11/2022	Olympic Communications Inc	763.00	15972	PEARSON; ADD HORN SPEAKER
				01 E 863 810 000 305 000	
				01 E 863 810 000 401 000	
757594	08/11/2022	Pan O Gold Baking	100.80	10000522206007	JACKSON; WHITE WHOLE GRAIN DOUBLE
				02 E 005 770 709 490 000	
				10000522213008	JACKSON; WHITE WHOLE GRAIN DOUBLE
				02 E 005 770 709 490 000	
757595	08/11/2022	Papco, INC.	639.51	110491	JACKSON; MATERIALS AND LABOR
				01 E 866 810 000 305 000	
				01 E 866 810 000 401 000	
757595	08/11/2022	Papco, INC.	639.51	225219-1	HS; BLADE KIT
				01 E 083 810 000 401 000	
				225677	EMS; PULLEY COVER
				01 E 085 810 000 401 000	
				225725	SWEENEY; DUST BAG, HOSE KIT, HOSE DRAIN, COVERS
				01 E 860 810 000 401 000	
				225969	JACKSON; FLOOR TOOL
				01 E 866 810 000 401 000	
757596	08/11/2022	Parsons, Karen	504.00		

				08.01.22	KAREN'S MYSTERY QUILT ADVENTURE 06.13.-08.01 21 STUDENTS
				04 E 500 599 321 305 000	
757597	08/11/2022	Pearson Education	45.00	18511174	Forms will be used by Brenda Geraghty whom you already have a file on.
					ACCOUNT #447096
					BUDGET CODE: 01-200-420-419-433
				01 E 200 420 419 433 000	
757598	08/11/2022	Peterson Companies, Inc.	14,801.42	49430	SPRING START UP; TURNED WATER ON, RAN SYSTEM, ADJUSTED HEADS
				01 E 866 810 000 305 000	
				01 E 866 810 000 401 000	
				49431	HS; SPRING START UP
				01 E 083 810 000 305 000	
				01 E 083 810 000 401 000	
757598	08/11/2022	Peterson Companies, Inc.	14,801.42	49516	WMS; SPRING START UP, REPLACE BAD HEADS, REPAIRED WIRING ISSUES AND LEAK
				01 E 005 810 000 353 000	
757599	08/11/2022	Plansource	2,641.00	IN288043	MONTHLY BENEFIT PAYMENTS; JULY
				01 E 005 030 000 305 000	
757600	08/11/2022	Plastic Bagmart	1,374.15	100217	JACKSON; COMPOSTABLE BAGS
				01 E 866 810 000 401 000	
				100239	EC; COMPOSTABLE BAGS
				01 E 865 810 000 401 000	
				100240	SP; COMPOSTABLE BAGS
				01 E 861 810 000 401 000	
757601	08/11/2022	Pma Securities	2,433.28	276214	OPEB-43-H018-47-5 FALT FEE
				45 E 005 935 000 305 000	
757602	08/11/2022	Praha Water To You	26.00	064368, 064508	5 GAL DK CRYSTAL; MONTHLY - AUGUST
				01 E 200 680 000 490 000	
757603	08/11/2022	Prairie Fire Theatre	2,300.00	08.06.22	PINOCCHIO; EXTRA SHOW
				04 E 500 585 332 305 000	
757604	08/11/2022	Quadient, Inc.	1,786.08	59433650	STANDARD MAINTENANCE
				01 E 005 110 000 305 000	

757605	08/11/2022	Ratwik, Roszak & Maloney, P.A	141.00	06.30.22	TELEPHONE CONFERENCE AND REVISION OF SOLAR AGREEMENT
				01 E 005 010 000 305 000	
757606	08/11/2022	Richtarich, Kelly Joann Irvin	2,695.00	08.08.22	CE; BAKE YOUR CAKE AND EAT IT TOO
				04 E 500 585 332 305 000	
757607	08/11/2022	River Valley Theatre Company	10,404.00	08.10.22	CHITTY CHITTY BANG BANG TICKET SALES
				04 E 500 585 332 305 000	
757608	08/11/2022	Ryan Mechanical Inc	26,243.52	1813	HS; ORDERED AND DROPPED OFF 6 OASIS VERSAFILLER FILTER CARTRIDGES
				01 E 083 810 000 401 000 SD560	HS; NO HOT WATER TO THE BUILDING
				01 E 083 810 000 305 000 01 E 083 810 000 401 000 SD561	EC; NEW AERATOR'S
				01 E 865 810 000 305 000 01 E 865 810 000 401 000 SD562	SWEENEYL FAUCET LEAKING AND BUBBLERS NOT WORKING
				01 E 860 810 000 305 000 01 E 860 810 000 401 000 SD563	RO; AERATOR'S
				01 E 864 810 000 305 000 01 E 864 810 000 401 000 SD573	HS; IGNITOR AND PUMP REPLACEMENT
				01 E 083 810 000 305 000 01 E 083 810 000 401 000	
757608	08/11/2022	Ryan Mechanical Inc	26,243.52	SD586	WMS; CHANGE OUT TO ANGLE STOPS FOR NEW COUNTERTOPS
				01 E 084 810 000 305 000	
757609	08/11/2022	Scholastic , Inc	3,035.18	M7268004	RO; STORYWORKS
				01 E 864 203 000 460 000	
757610	08/11/2022	Shakopee Public Utility Commis	210,520.66	1310-001 07.22.22	CFC; ELECTRIC AND WATER
				01 E 863 810 000 330 000 01 E 863 810 000 331 000	
				1310-002 07.22.22	CFC; WATER
				01 E 863 810 000 331 000	
				13508-001 07.22.22	RO; WATER
				01 E 864 810 000 331 000	
				13508-002 07.22.22	WMS; WATER

01 E 084 810 000 330 000	
22027-001 07.22.22	RO; ELECTRIC, WATER
01 E 864 810 000 330 000	
01 E 864 810 000 331 000	
22027-002 07.22.22	RO; WATER
01 E 864 810 000 331 000	
22027-003 07.22.22	RO; WATER
01 E 864 810 000 331 000	
2258-001 07.22.22	SWEENEY; WATER
01 E 860 810 000 331 000	
2259-001 07.22.22	SWEENEY; WATER
01 E 860 810 000 331 000	
2259-002 07.22.22	SWEENEY; WATER
01 E 860 810 000 331 000	

757610	08/11/2022	Shakopee Public Utility Commis	210,520.66
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23457-001 07.22.22	HS; ELECTRIC, WATER
01 E 083 810 000 330 000	
01 E 083 810 000 331 000	
23457-002 07.22.22	HS; ELECTRIC
01 E 083 810 000 330 000	
23457-003 07.22.22	HS; WATER
01 E 083 810 000 331 000	
23457-004 07.22.22	EC; ELECTRIC, WATER
01 E 865 810 000 330 000	
01 E 865 810 000 331 000	
23457-006 07.22.22	EC; WATER
01 E 865 810 000 331 000	
23457-007 07.22.22	HS; ELECTRIC, WATER
01 E 083 810 000 330 000	
01 E 083 810 000 331 000	
23457-008 07.22.22	JACKSON; ELECTRIC, WATER
01 E 866 810 000 330 000	
01 E 866 810 000 331 000	
23457-009 07.22.22	JACKSON; WATER
01 E 866 810 000 331 000	
23457-010 07.22.22	DO; ELECTRIC
01 E 200 810 000 330 000	
23457-011 07.22.22	HS; ELECTRIC
01 E 083 810 000 330 000	
23457-013 07.22.22	HS; ELECTRIC
01 E 083 810 000 330 000	
23457-014 07.22.22	HS; ELECTRIC
01 E 083 810 000 330 000	
2679-003 07.22.22	WMS; ELECTRIC
01 E 084 810 000 330 000	

757610	08/11/2022	Shakopee Public Utility Commis	210,520.66
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2679-004 07.22.22	GROUNDS SHOP; ELECTRIC
01 E 005 810 000 330 000	
2680-001 07.22.22	WMS; ELECTRIC, WATER
01 E 084 810 000 330 000	

01 E 084 810 000 331 000
 2682-002 07.22.22 WMS; ELECTRIC
 01 E 084 810 000 330 000
 3020-001 07.22.22 PEARSON; ELECTRIC, WATER
 01 E 862 810 000 331 000
 3949-001 07.22.22 EMS; ELECTRIC, WATER
 01 E 085 810 000 330 000
 01 E 085 810 000 331 000
 3949-002 07.22.22 EMS; WATER
 01 E 085 810 000 331 000
 3949-003 07.22.22 EMS; ELECTRIC
 01 E 085 810 000 330 000
 3951-001 07.22.22 EMS; WATER
 01 E 085 810 000 331 000
 4330-001 07.22.22 WMS; ELECTRIC, WATER
 01 E 084 810 000 330 000
 01 E 084 810 000 331 000
 5484-001 07.22.22 EMS; WATER
 01 E 085 810 000 331 000
 5878-001 07.22.22 SWEENEY; ELECTRIC
 01 E 860 810 000 330 000
 6561-001 07.22.22 PEARSON; ELECTRIC
 01 E 863 810 000 330 000
 9846-001 07.22.22 SP; ELECTRIC
 01 E 861 810 000 330 000
 01 E 861 810 000 331 000

757610	08/11/2022	Shakopee Public Utility Commis	210,520.66	9848-001 07.22.22	SP; ELECTRIC, WATER
				01 E 861 810 000 331 000	
				9850-001 07.22.22	SP; WATER
				01 E 861 810 000 331 000	
757611	08/11/2022	Shred-N-Go, Inc	91.08	138539	DO; SHREDDING PICK UP
				01 E 005 810 000 332 000	
757612	08/11/2022	Twin City Hardware	2,943.21	PSI2130482	LABOR; KEYING
				01 E 005 810 000 401 000	
757613	08/11/2022	United States Postal Service	2,000.00	08.09.22	2022 COMMUNITY ED FALL CATALOG POSTAGE
				04 E 500 505 321 329 000	
757614	08/11/2022	Upper Lakes Foods	553.80	146403-00	HS; DRY, COOLER, FROZEN, MISC
				02 E 005 770 709 490 000	
757615	08/11/2022	Verizon Wireless	619.24	9911810582	MONTHLY CHARGES; 06.24-07.23
				01 E 200 412 422 555 000	
				01 E 200 680 000 320 000	
757616	08/11/2022	Vogel, Amber	47.40	08.01.22	FOOD SERVICE REFUND #304900, #604901
				02 R 005 000 701 601 000	

757617	08/11/2022	Welcome Neighbor Inc	225.00	16275	FY 22/23 CHILDCARE/PRESCHOOL DIRECTORY - FULL PAGE AD
				04 E 500 580 325 305 000 04 E 500 582 344 305 000	
757618	08/11/2022	Wold Architects & Engineers	2,304.25	80506	SUN PATH CARPET REPLACEMENT
				05 E 861 865 379 522 000	
757619	08/11/2022	1st Line Group	775.30	142424	LABOR
				01 E 083 292 000 410 300	
757620	08/11/2022	Culligan Bottled Water	66.83	114X87036006	TOKATA; RENTAL SERVICE, 5 GALLONS
				01 E 005 810 000 401 000	
757621	08/11/2022	Educators Benefit Consultants	493.37	23722	403B ADMIN & COMPLIANCE SERVICE MONTHLY FEE
				01 E 005 030 000 305 000	
757622	08/11/2022	Healy Awards, Inc	116.65	INV058684.2	4 ATHLETE OF THE YEAR AWARDS
				01 E 083 292 000 405 300	
757623	08/11/2022	House Of Print	1,793.97	066794	ECFE FALL CATALOG
				04 E 500 580 325 381 000	
757624	08/11/2022	Imagine Learning LLC	10,000.00	876936	Edgenuity Integration Start Date 7/1/2022 - End Date 6/30/2023 Quote 263116
				05 E 200 211 302 563 000	
757625	08/11/2022	Mackin Educational Resources	1,100.03	735235	WMS; 45 TITLES
				05 E 200 620 302 470 211 743989	EMS; 21 TITLES
				05 E 200 620 302 470 211	
757625	08/11/2022	Mackin Educational Resources	1,100.03	744345	JACKSON; 5 TITLES
				05 E 200 620 302 470 211	
757626	08/11/2022	Norcostco	56,173.60	194855	HS; DRAPERY PACKAGE
				05 E 083 865 363 305 000	
757627	08/11/2022	Plansource	7,641.00	IN286585	JUNE BENEFITS
				01 E 005 030 000 305 000	
757628	08/11/2022	Sw News Media	489.00	2163196	NEXT! COMMUNITY GUIDE
				04 E 500 580 325 305 000 04 E 500 582 344 305 000	
757629	08/11/2022	Follett Educational Services	8,156.97		

			1475399	DESTINY LIBRARY RENEWAL QUOTE 7634159
			01 E 200 420 419 401 000 05 E 200 620 302 563 000	
757727	08/11/2022	Pearson Education	697.28	
			17985529	Forms will be used by Brenda Geraghty - whom you already have a file on. BUDGET CODE 01-200-420-419-433
			01 E 200 420 419 433 000 18040992	forms will be used by Brenda Geraghty - whom you already have a file on BUDGET CODE 01-200-420-419-433
757643	08/12/2022	Aflac	220.87	
			AFLA.08122022.D	AFLA - Aflac After-tax for 8.12.22 Summer Check 4 of 4
			01 L 215 65 AFLA.08122022.D.a	AFLA - Aflac After-tax for 8.12.22 Bi- Weekly Payroll
			01 L 215 65 02 L 215 65 AFLC.08122022.D	AFLC - Aflac Pre-tax for 8.12.22 Summer Check 4 of 4
			01 L 215 65 02 L 215 65 AFLC.08122022.D.a	AFLC - Aflac Pre-tax for 8.12.22 Bi- Weekly Payroll
			01 L 215 65 02 L 215 65	
757644	08/12/2022	Gurstel Law Firm P.C	291.58	
			GARN8.08122022.D	GARN8 - Garnishment8 for 8.12.22 Bi- Weekly Payroll
			01 L 215 87	
757645	08/12/2022	Maryland Child Support Account	100.96	
			GARN13.08122022.D	GARN13 - Garnishment13 for 8.12.22 Bi- Weekly Payroll
			01 L 215 87	
757646	08/12/2022	Mn Dept Of Child Support Div	1,135.46	
			GARN1.08122022.D	GARN1 - Garnishment1 for 8.12.22 Summer Check 4 of 4
			01 L 215 87 GARN1.08122022.D.a	GARN1 - Garnishment1 for 8.12.22 Bi- Weekly Payroll
			01 L 215 87	
757647	08/12/2022	NCPERS Group Life Ins.	24.00	
			PLFE.08122022.D	PLFE - Pera Life for 8.12.22 Summer Check 4 of 4
			01 L 215 14	
757647	08/12/2022	NCPERS Group Life Ins.	24.00	

				PLFE.08122022.D.a	PLFE - Pera Life for 8.12.22 Bi-Weekly Payroll
				01 L 215 14	
				02 L 215 14	
757648	08/12/2022	School Services Employees	1,044.04		
				UCUS.08122022.D	UCUS - Custodian Union Dues for 8.12.22 Bi-Weekly Payroll
				01 L 215 60	
				02 L 215 60	
757650	08/18/2022	City Of Shakopee	570.00		
				10483	LAW ENFORCEMENT SERVICES; JUNE
				01 E 005 715 342 310 000	
757651	08/18/2022	Innovative Office Solutions	68.46		
				IN3774894	WMS; PENS
				01 E 084 050 000 401 000	
757652	08/18/2022	Meteor Education LLC	14,767.39		
				810701_ADV	mobile workstations, tops and mount brackets
				05 E 860 050 302 530 000	
757653	08/18/2022	Minneapolis Oxygen	92.17		
				00095586	HS; CYLINDER RENTAL
				01 E 083 255 000 430 000	
757654	08/18/2022	Anderson, Michelle	23.10		
				08.11.22	FOOD SERVICE REFUND; 306932
				02 R 005 000 701 601 000	
757655	08/18/2022	Benchmark Education	16,332.75		
				740	GRADE 3-5 TEACHER PACKAGE & ADD ON SET
				01 E 200 205 417 430 000	
757656	08/18/2022	Biffs Inc	1,448.67		
				W880252	PEARSON; JUL-AUG
				04 E 500 561 000 305 000	
				W880253	JACKSON; JUL-AUG
				04 E 500 561 000 305 000	
				W880254	RO; JUL-AUG
				04 E 500 561 000 305 000	
				W880255	SWEENEY; JUL-AUG
				04 E 500 561 000 305 000	
				W880256	HS TENNIS/STEMMER; JUL-AUG
				04 E 500 561 000 305 000	
				W880257	WMS; JUL-AUG
				04 E 500 561 000 305 000	
				W880258	VIERLING SB FIELDS; JUL-AUG
				04 E 500 561 000 305 000	
				W880259	SABER FIELDS; JUL-AUG
				04 E 500 561 000 305 000	
757657	08/18/2022	Bsn Sports	659.88		
				917712581	POLYPRO MULTI SPORT ARCHED SCARLET 7-9
				01 E 083 296 000 410 335	
757658	08/18/2022	City Of Shakopee	818.94		

				10476 04 E 500 249 321 442 000	DRIVERS ED FUEL USAGE; JULY
757659	08/18/2022	Codework Inc	3,384.00	220445	Vision District License renewal 22-24 RN#3210003 For the period Oct 6, 2022 to Oct 6, 2024
				05 E 200 680 302 563 000	
757660	08/18/2022	Computer Explorers	1,056.00	4603	CE; VIDEO PRODUCTION FOR YOUTUBE
				04 E 500 585 332 305 000	
757661	08/18/2022	Culligan Bottled Water	13.35	114X87188104	SP; BOTTLED WATER EQUIPMENT RENTAL
				01 E 861 298 000 490 000	
757662	08/18/2022	Elsmore Swim Shop	932.00	T-0017299	LATEX SCREEN CAP; BLACK AND PINK
				01 E 083 296 000 410 340	
757663	08/18/2022	Flint Consulting	750.00	323	INTERCULTURAL STUDIES TRAINING PRESENTATION
				01 E 200 640 308 305 000	
757664	08/18/2022	Follett Educational Services	3,061.45	2622738A 01 E 861 203 000 430 000	SP; MATH EXPRESSIONS
				01 E 200 204 414 366 640 7028033329	
757665	08/18/2022	Gateway Education Holdings LLC	17,664.86	4026714390	MYVIEW LITERACY QUOTE 183601-6 (01-200-204-414-366-640)
				04 E 701 590 351 460 000 7028031094	LITERACY PROFESSIONAL DEVELOPMENT VIRTUAL TITLE 2 (01-200-204-414-366-640)
				01 E 200 204 414 366 640 7028033329	MYVIEW LITERACY QUOTE 183601-6 (01-200-204-414-366-640)
				04 E 701 590 351 460 000	
757666	08/18/2022	General Parts , Inc	7,887.65	6359417	EC; CLEVELAND RANGE LABOR AND MATERIALS
				02 E 005 770 701 352 000 6359430	PEARSON; ACCUTEMP
				02 E 005 770 701 352 000 6359827	PEARSON; NOR-LAKE
				02 E 005 770 701 352 000 6360079	SP; GROEN DIVISION
				02 E 005 770 701 352 000 6360361	RO; KOLPAK-MAITOWOC

				02 E 005 770 701 352 000 6360386	SP; BLODGETT OVEN
				02 E 005 770 701 352 000 6360389	SP; BLODGETT OVEN
				02 E 005 770 701 352 000 6360398	EC; MANUFACTURING COM
				02 E 005 770 701 352 000 6360459	WMS; VULCAN-HART
				02 E 005 770 701 352 000	
757666	08/18/2022	General Parts , Inc	7,887.65		
				6361289	WMS; VICTORY REFRIGERATOR REACH IN COOLER
				02 E 005 770 701 352 000 6361291	WMS; KOLPAK MANITOWOC WALK IN FREEZER
				02 E 005 770 701 352 000 6361310	EMS; CLEVELAND RANGE STEAMER
				02 E 005 770 701 352 000 6361312	EMS; MEIKO USA DISH WASHER
				02 E 005 770 701 352 000 6361316	EMS; CONTINENTAL REFRIGERATOR HOLDING CABINET
				02 E 005 770 701 352 000 6361318	EMS; CONTINENTAL REFRIGERATOR HOLDING CABINET
				02 E 005 770 701 352 000 6361319	EMS; NOR LAKE WALK IN COOLER
				02 E 005 770 701 352 000 6361320	JACKSON' VULCAN HART STEAMER
				02 E 005 770 701 352 000 6361336	WMS; VICTORY REFRIGERATOR WALK IN FREEZER
757667	08/18/2022	Holte, Natalie	494.00	02 E 005 770 701 352 000	
				08.04.22	EVENT STAFF; SABER STRENGTH HOURS
757668	08/18/2022	Innovative Office Solutions	190.93	01 E 083 291 000 305 374	
				IN3888441	HS; TONER, STAPLER, STAPLES, PAD, DRY ERASE MARKERS
				01 E 083 296 000 410 340 IN3888552	FOLDERS
				01 E 083 292 000 410 300	
757668	08/18/2022	Innovative Office Solutions	190.93		
				IN3899170	WMS; BADGE
				01 E 084 050 000 401 000	
757669	08/18/2022	Jenkins, Kurtis	12.80		

				08.11.22	FOOD SERVICE REFUND; 235943
				02 R 005 000 701 601 000	
757670	08/18/2022	Kemps LLC	208.80		
				102507100	HS; 1%, CHOC
				02 E 005 770 701 495 000	
				102507102	EMS; CHOC
				02 E 005 770 701 495 000	
				102507103	JACKSON; 1%, CHOC
				02 E 005 770 701 495 000	
757671	08/18/2022	Mackin Educational Resources	549.67		
				754796	WMS; 31 TITLES
				05 E 200 620 302 470 211	
757672	08/18/2022	Marshall, Jim	40.00		
				2022	OFFICIAL SCHEDULE; BOYS AND GIRLS
				01 E 083 294 000 312 340	
				01 E 083 296 000 312 340	
757673	08/18/2022	Minnesota School Of Business	11,525.36		
				182	TOKATA; RENT
				05 E 086 211 302 570 000	
757674	08/18/2022	Novak, Heather	2,764.03		
				08.17.22.2	CE; KIDS KITCHEN BOOTCAMP 101 INSTRUCTOR
				04 E 500 585 332 305 000	
757675	08/18/2022	Novak, Heather Supplies	1,031.38		
				08.17.22	CE; KIDS KITCHEN BOOT CAMP SUPPLIES
				04 E 500 585 332 430 000	
757676	08/18/2022	Olstad, Stephanie	421.90		
				08.17.22	CE; INSTRUCTIONAL SUPPLIES - 2D SIDEWALK CHALK CAMP
				04 E 500 585 332 430 000	
				08.17.22.2	CE; SIDEWALK CHALK CAMP INSTRUCTOR
				04 E 500 585 332 305 000	
757677	08/18/2022	Perma Bound	285.38		
				1935287-00	LION, WITCH, AND THE WARDROBE & MANIAC MAGEE
				04 E 701 590 351 460 000	
757678	08/18/2022	Rowe, Christa	17.00		
				08.15.22	FOOD SERVICE REFUND; 304337
				02 R 005 000 701 601 000	
757679	08/18/2022	Savage, Todd A	1,500.00		
				095	SPEAKER FEE; CO FACILITATING PREPARE WORKSHOP 1
				01 E 005 790 342 305 000	
757680	08/18/2022	Sndm	100.00		
				08.17.22	SCHOOL FOOD SERVICE DIRECTORS MEMBERSHIP FY23
				02 E 005 770 701 820 000	
757681	08/18/2022	SPORTSGRAPHICS, INC.	198.00		
				39360	VINYL PRINTS

01 E 083 296 000 410 333

757682	08/18/2022	Strunk, Shannon	85.45	08.11.22 02 R 005 000 701 601 000	FOOD SERVICE REFUND; 222598
757683	08/18/2022	The Board of Trustees of the University of Alabama	2,161.00	08.01.22 18 E 083 960 340 898 000	SCHOLARSHIP; AB
757684	08/18/2022	Vernier Software And Technolog	149.00	5435497	Vernier Video Analysis subscription renewal 22-23 Quote # 1087907 - 000 6/30/2022-7/1/2023
757685	08/18/2022	Winona State University	2,500.00	05 E 200 260 302 530 000 08.15.22 18 E 083 960 340 898 000	SCHOLARSHIP; APPLE AUTOS
757686	08/18/2022	WL COLLINS CORP INC	1,306.74	407970	MEDICAL AND SAFETY EQUIPMENT
757687	08/18/2022	Wold Architects & Engineers	33,408.50	01 E 083 292 000 437 300 80618 05 E 005 865 384 522 000 80619	TENNIS COURT RESURFACING WMS 1ST LEVEL CARPET REPLACEMENT
757688	08/19/2022	Mainhardt, Robert	86.25	05 E 084 865 379 522 000 07.21.22	EER; FACE MASK FOR HELMETS
757689	08/19/2022	Moran, Joseph G	91.00	01 E 083 294 000 410 303 07.27.22	EER; SUPPLIES FOR PARKING POLES
757690	08/19/2022	Rozowa, Paula S	750.00	04 E 500 249 321 430 000 07.20.22	EER; AP TRAINING
757692	08/25/2022	Agyapong, Vanessa	187.00	01 E 200 640 308 366 000 08.18.22	THEATER TECH; PFTC PINNOCHIO 08.04 & 08.05
757693	08/25/2022	Airgas National Carbonation	156.51	04 E 500 585 332 188 000 9990575047	WMS; CO2 MONITOR RENTAL
757694	08/25/2022	BLUUM of Minnesota LLC	1,436.40	01 E 084 810 000 305 000 875629	FrontRow Systems for EAST Quote #233472
757695	08/25/2022	Centurylink	362.97	05 E 200 630 795 530 000 952.445.8004 08.01.22 01 E 005 810 000 320 000 952.445.8004 08.07.22 01 E 005 810 000 320 000	MONTHLY CHARGE MONTHLY CHARGE

757696	08/25/2022	Choice Electric, Inc	7,428.61	21972	SP; TROUBLE SHOOT LIGHTS ON 1ST AND 2ND LEVEL HALLWAYS
				01 E 861 810 000 305 000	
				01 E 861 810 000 401 000	
				21974	PEARSON; TROUBLESHOOTING QUAD NOT WORKING
				01 E 863 810 000 305 000	
				01 E 863 810 000 401 000	
				21976	HS; REMOVE AND INSTALL NEW CAN LIGHTS
				01 E 083 810 000 305 000	
				01 E 083 810 000 401 000	
757696	08/25/2022	Choice Electric, Inc	7,428.61	22004	HS; PROVIDE LED PAR LIGHTS, SMALL S6 LED LAMOS AND COMPACT FLUORESCENT
				01 E 083 810 000 401 000	
				22011	SP; 22 FLOORBOX COVERS
				01 E 861 810 000 401 000	
				22012	EMS; 4 FLOORBOX COVERS
				01 E 085 810 000 401 000	
				22019	PEARSON; INSTALL MOTION SWITCH IN STORAGE ROOM
				01 E 863 810 000 305 000	
				01 E 863 810 000 401 000	
757697	08/25/2022	Electro Watchman, INC.	175.00	389807	SP; RECONNECT DESK PANIC BUTTON
				01 E 861 810 000 305 000	
757698	08/25/2022	Fairfield Glass Inc	375.00	8750	HS; INSTALL METAL FRAME WITH GLASS IN DOOR
				01 E 083 810 000 305 000	
757699	08/25/2022	General Parts , Inc	1,193.13	6361632	JACKSON; MEIKO USA DISH WASHER
				02 E 005 770 701 352 000	
				6361851	SWEENEY; ACCUTEMP STEAMER
				02 E 005 770 701 352 000	
757700	08/25/2022	Hall, Tara	18.60	08.22.22	FOOD SERVICE REFUND; #300662
				02 R 005 000 701 601 000	
757701	08/25/2022	Hillyard / Hutchinson	1,021.46	604831419	EMS; 20 IN TOOL, 20 IN PAD
				01 E 085 810 000 401 000	
757702	08/25/2022	Innovative Office Solutions	4,745.97	IN3891882	SWEENEY; SANITIZER
				01 E 860 810 000 401 000	
				IN3892432	PEARSON; MOP, HANDLE, BUCKET

				01 E 863 810 000 401 000 IN3893989	PEARSON; LINER
				01 E 863 810 000 401 000 IN3894056	JACKSON; CLEANER, TISSUE, SOAP, LINER
				01 E 866 810 000 401 000 IN3895344	EC; TOWELS
				01 E 865 810 000 401 000 RMA-124716	WMS; LABEL MAKER CREDIT
				01 E 084 050 000 401 000	
757703	08/25/2022	Institute For Environ Assess	1,980.45	00045043	FY 23-25 ENVIRON, HEALTH, AND SAFETY MANAGEMENT SERVICES
				05 E 005 865 352 305 000 00045057	ELECTRICAL SKILLS AND SAFETY TRAINING
				05 E 005 865 352 305 000	
757704	08/25/2022	Intermediate District 287	4,261.20	0002200629	FY22 CARE AND TREATMENT FINAL BILLING
				01 E 200 794 000 390 000	
757705	08/25/2022	Johnson Controls	500.38	89010596	RO; HEAT SENSOR, ALARM, DETECTION REGULAR LABOR
				05 E 864 865 363 305 000	
757706	08/25/2022	Jostens Inc	29.76	28922460	2 DIPLOMAS
				01 E 086 211 303 430 000	
757707	08/25/2022	Lach, Theavy	200.00	07.19.22	INTERPRETER; BEGINNING SCREENING TO EVAL
				01 E 200 412 740 394 000 07.22.22	INTERPRETER; HOME VISIT 07.22.22
				01 E 200 412 740 394 000 08.05.22	INTERPRETER; HOME VISIT 08.05.22
				01 E 200 412 740 394 000 08.15.22	INTERPRETER; HOME VISIT 08.15.22
				01 E 200 412 740 394 000	
757708	08/25/2022	Liebl, Michelle	150.00	08.03.22	INTERPRETER; IEP VIRTUAL 08.03.22
				01 E 200 412 419 358 000 08.10.22	INTERPRETER; PRESCHOOL SCREENING 08.10.22
				04 E 500 583 354 358 000 3937	INTERPRETER; HOME VISIT 08.03
				01 E 200 412 740 394 000	
757709	08/25/2022	Math By Mail Llc	675.00	07.26.22	CE; 9 STUDENTS

757710	08/25/2022	Merry, Vanessa	300.00	04 E 500 585 332 305 000 0670	CE; IMPRESSIONIST PAINTING - 12 ENROLLED
				04 E 500 599 321 305 000	
757711	08/25/2022	Metro Ecsu	8,950.00	INV0001420	GENERAL SERVICE FEE, FY 22 MEMBERSHIP FLAT FEE
				01 E 005 020 000 820 000	
757712	08/25/2022	Minnesota Highway Safety & Research Center	188.00	08.17.22	CE; 4 HR REFRESHER
				04 E 500 599 321 305 000	
757713	08/25/2022	MN Dept of Labor and Industry	200.00	ALR0135514X	JACKSON; ANNUAL EVEVATOR
				01 E 866 810 000 305 000	
				ALR0135666X	HS; ANNUAL EVEVATOR
				01 E 083 810 000 305 000	
757714	08/25/2022	Msba	16,694.00	INV-01684-M9X5Z2	POLICY SERVICES SUBSCRIPTION, ISD MEMBERSHIP, BOARDBOOK SUBSCRIPTION TIER 1
				01 E 005 010 000 820 000	
757715	08/25/2022	Pearson Education	1,197.00	18553032	Forms will be used by Brenda Geraghty - whom you already have a file on.
					BUDGET CODE 01-200-420-419-433
				01 E 200 420 419 433 000	
757716	08/25/2022	Premium Water Co	17.50	856217-07-22	DO; WATER
				01 E 005 110 000 490 000	
757717	08/25/2022	Procure Therapy	378.00	20449935	LT SCHOOL SLI; REGULAR RATE 07.29
				01 E 200 405 740 394 000	
757718	08/25/2022	Ryan Mechanical Inc	270.00	SD597	SWEENEY; SINK REPAIR
				01 E 860 810 000 305 000	
757719	08/25/2022	Scholastic , Inc	5,142.83	M7241523	JACKSON; SCHOLASTIC NEWS 2
				01 E 866 298 000 401 000	
				M7242108	SP; SCHOLASTIC NEWS; GRADES 1-5
				01 E 861 203 000 430 200	
				01 E 861 203 000 430 201	
				01 E 861 203 000 430 203	
				01 E 861 203 000 430 204	
				01 E 861 203 000 430 205	
				01 E 861 298 000 401 000	
				01 E 861 402 000 430 000	

757720	08/25/2022	Smsc	1,065.50	SALES00000007817 01 E 005 810 000 332 000	ORGANICS RECYCLING; JULY
757721	08/25/2022	Southwest Metro Intermediate District #288	178,407.30	3925 01 E 005 715 342 310 000 05 E 005 850 302 570 000 05 E 005 865 347 305 000 3937 03 E 005 760 723 361 000	FY 23; LTFM LEVY, LEASE LEVY, SAFE SCHOOLS LEVY FY 21/22 SPED ED TRANSPORTATION; JAN-JUN
757722	08/25/2022	Spangberg, Scott	400.00	08.18.22 04 E 500 585 332 305 000	CE; SAFE AT HOME
757723	08/25/2022	Thomas, Diya	221.00	08.18.22 04 E 500 585 332 188 000	THEATER TECH; PFTC PINNOCHIO 08.04 & 08.05 & 08.06
757724	08/25/2022	Trane Company	14,541.00	312865163 01 E 083 810 000 305 000	HS; SERVICE AGREEMENT
757725	08/25/2022	Tri Dim Filter Corporation	1,063.18	2643446-3 01 E 866 810 000 401 000	JACKSON; MATERIALS
757726	08/25/2022	Uhl Co., Inc	438.00	43285A 01 E 083 810 000 401 000 43481 01 E 083 810 000 401 000	HS; MATERIALS FOR WARM KITCHEN HS; LABOR AND MATERIAL
757764	08/29/2022	Aflac	220.87	AFLA.08262022.D 01 L 215 65 02 L 215 65 AFLC.08262022.D 01 L 215 65 02 L 215 65	AFLA - Aflac After-tax for 8.26.22 Bi- Weekly PR AFLC - Aflac Pre-tax for 8.26.22 Bi- Weekly PR
757765	08/29/2022	Gurstel Law Firm P.C	291.58	GARN8.08262022.D 01 L 215 87	GARN8 - Garnishment8 for 8.26.22 Bi- Weekly PR
757766	08/29/2022	Maryland Child Support Account	100.96	GARN13.08262022.D 01 L 215 87	GARN13 - Garnishment13 for 8.26.22 Bi- Weekly PR
757767	08/29/2022	Messerli & Kramer	895.51	GARN10.08262022.D 01 L 215 87	GARN10 - Garnishment10 for 8.26.22 Bi- Weekly PR

757768	08/29/2022	Mn Dept Of Child Support Div	935.46	GARN1.08262022.D 01 L 215 87	GARN1 - Garnishment1 for 8.26.22 Bi-Weekly PR
757769	08/29/2022	NCPERS Group Life Ins.	24.00	PLFE.08262022.D 01 L 215 14 02 L 215 14	PLFE - Pera Life for 8.26.22 Bi-Weekly PR
757770	08/29/2022	School Services Employees	973.05	UCUS.08262022.D 01 L 215 60 02 L 215 60	UCUS - Custodian Union Dues for 8.26.22 Bi-Weekly PR
757772	08/31/2022	Academic All Star Tutoring	3,672.85	1888 04 E 500 585 362 305 000	CE; PREP STAR BLAST
757773	08/31/2022	Advanced Imaging Solutions	172.32	INV284123 01 E 005 110 000 401 000 01 E 005 137 000 401 000 01 E 083 690 000 430 000 01 E 084 605 000 430 000 01 E 085 050 000 401 000 01 E 086 211 303 430 000 01 E 200 680 000 401 000 01 E 860 050 000 401 000 01 E 864 203 000 430 000 01 E 865 203 000 430 000 01 E 866 050 000 401 000 02 E 005 770 701 401 000	COLOR COPIES
757774	08/31/2022	Airgas National Carbonation	218.64	9128871115 01 E 084 810 000 401 000	WMS; DIOXIDE ANC LIQUID MICROBULK
757775	08/31/2022	Anchor Paper	397.29	10689277-02 01 E 005 170 000 401 000 10689277-07 01 E 005 170 000 401 000	DO; WHITE, BLUE, YELLOW, TAN, BLUE PAPER DO; BLUE, PINK, WHITE PAPER
757776	08/31/2022	Apple Valley High School	245.00	11.23.21 01 E 083 296 000 369 342	VOLLEYBALL 09.23.22
757777	08/31/2022	Aramark	927.20	24784975 01 E 860 810 000 415 000 01 E 864 810 000 415 000	SWEENEY & RO; UNIFORMS
757778	08/31/2022	Armstrong High School	750.00	06.14.22	BOYS AND GIRLS CROSS COUNTRY ENTRY FEE; 10.24.22

				01 E 083 294 000 369 325	
				01 E 083 296 000 369 325	
757779	08/31/2022	Biffs Inc	1,647.50		
				W879508	MONTHLY SERVICE; TRACK STADIUM JUL-AUG
757780	08/31/2022	Bix Produce Company	684.09	01 E 083 292 000 410 300	
				05478207	EMS; ASST FRUIT/VEGGIE
				02 E 005 770 709 490 000	
				05483484	PEARSON; ASSSORTED FRUITS/VEGGIES
				02 E 005 770 709 490 000	
				05489990	PEARSON; ASST FRUIT/VEGGIE
				02 E 005 770 709 490 000	
				05496198	HS; ASSORTED FRUITS AND VEGGIES
757781	08/31/2022	Bloomington Jefferson Hs	370.00	02 E 005 770 709 490 000	
				08.08.22	VOLLEYBALL 09.24.22
757782	08/31/2022	Btu Services, Inc	899.90	01 E 083 296 000 369 342	
				00010499	FS; PREMIUM LAUNDRY DET
				02 E 005 770 701 401 000	
757783	08/31/2022	Buffalo High School	200.00		
				08.18.22	BOYS AND GIRLS CROSS COUNTRY ENTRY FEE
757784	08/31/2022	Canon Financial Services	2,563.44	01 E 083 294 000 369 325	
				01 E 083 296 000 369 325	
				29044166	COLOR COPIER; RENTAL AGREEMENT
757785	08/31/2022	Centerpoint Energy Minnegasco	12,578.67	05 E 200 630 795 555 000	
				10215706-2 08.10.22	TO; JULY GAS CHARGES
				01 E 086 810 303 333 000	
				11236177-9 08.10.22	SWEENEY; JULY GAS CHARGES
				01 E 860 810 000 333 000	
				11535041-5 07.22.22	PEARSON; JUNE GAS CHARGES
				01 E 863 810 000 333 000	
				11535041-5 08.16.22	MONTHLY CHARGES; JULY
				01 E 863 810 000 333 000	
				5177054-3 08.10.22	WMS; JULY GAS CHARGES
				01 E 084 810 000 333 000	
				5223609-8 08.09.22	RO; JULY GAS CHARGES
				01 E 864 810 000 333 000	
				5242718-4 08.10.22	EMS; JULY GAS CHARGES
				01 E 085 810 000 333 000	
				5257585-9 08.10.22	CFC; JULY GAS CHARGES
				01 E 863 810 000 333 000	
				5257970-3 08.09.22	SP; JULY GAS CHARGES
				01 E 861 810 000 333 000	
				6400100009-6 08.10.22	DO; JULY GAS CHARGES

01 E 005 810 000 333 000

757785	08/31/2022	Centerpoint Energy Minnegasco	12,578.67	6400976419-8 08.09.22	GROUNDS BUILDING; JULY GAS CHARGES
				01 E 005 810 000 333 000	
				6908955-5 08.09.22	HS; JULY GAS CHARGES
				01 E 083 810 000 333 000	
				7099278-9 08.09.22	EC; JULY GAS CHARGES
				01 E 865 810 000 333 000	
				9083520-8 08.09.22	JACKSON; JULY GAS CHARGES
				01 E 866 810 000 333 000	
757786	08/31/2022	Chaska High School	400.00	01.21.22	BOYS AND GIRLS CROSS COUNTRY ENTRY FEE
				01 E 083 294 000 369 325	
				01 E 083 296 000 369 325	
757787	08/31/2022	Choice Electric, Inc	380.78	21975	EMS; MOVE DISHWASHER RECEPTACLES, DEMO DISPOSALS, DISCONNECT 2 OVENS
				01 E 085 810 000 305 000	
757788	08/31/2022	Collins, Molly	176.85	08.26.22	FS REFUNDS; #237105, #233689
				02 R 005 000 701 601 000	
757789	08/31/2022	Dell Marketing Lp	42.59	10605754945	Battery replacement for HR Quote No. 3000128512500.1
				01 E 200 680 000 350 000	
757790	08/31/2022	Dilemma Brewing Co LLC	62.00	08252022	CE; SHIRTS FOR TYE DYE NIGHT
				04 E 500 599 321 430 000	
757791	08/31/2022	Donsasolit, Teuanchit	229.40	08.24.22	FS REFUND; #305024, #237943
				02 R 005 000 701 601 000	
757792	08/31/2022	Duluth East High School	130.00	04.04.22	SWIM ENTRY FEE; 10.08.22
				01 E 083 296 000 369 340	
757793	08/31/2022	East Ridge High School	340.00	02.24.22	VOLLEYBALL 10.08.22
				01 E 083 296 000 369 342	
757794	08/31/2022	Electro Watchman, INC.	5,176.15	390768	SP; NEW INSTALLATIONS
				01 E 861 810 000 305 000	
				01 E 861 810 000 401 000	
				390991	TO; ALARM MONITORING
				01 E 086 810 303 305 000	
				390994	ELC; ALARM MONITORING
				01 E 863 810 000 305 000	
				390997	SP; ALARM MONITORING
				01 E 861 810 000 305 000	

				391012	WMS; CONNECT EXISTING CODE BLUE LIGHT TO EXISTING LOCKDOWN SYSTEM
				01 E 084 810 000 305 000 391061	DO; INSTALLATION
				01 E 005 810 000 305 000 391063	WMS; NEW INSTALLATION
				01 E 084 810 000 305 000	
757795	08/31/2022	Farmington High School	200.00		
				04.26.22	BOYS AND GIRLS CROSS COUNTRY ENTRY FEE; 09.29.22
				01 E 083 294 000 369 325 01 E 083 296 000 369 325	
757796	08/31/2022	General Parts , Inc	761.89		
				6362631	JACKSON; TRAUlsen FOOD WARMER
				02 E 005 770 701 352 000 6363833	EMS; HOBART MIXER
				02 E 005 770 701 352 000	
757797	08/31/2022	Grainger, Inc	139.38		
				9419526059	RO; TOILET SEAT
				01 E 864 810 000 401 000	
757798	08/31/2022	High Point Networks LLC	1,591.25		
				209637	MITEL CONNECT APP ISSUES
				01 E 200 680 000 305 000	
757799	08/31/2022	Holte, Natalie	312.00		
				08.15.22	TRAINING HOURS; 08.01-08.04, 08.08- 08.11
				01 E 083 291 000 305 374	
757800	08/31/2022	Horizon Commercial Pool Supply	3,923.99		
				INV24714	EMS; HYDROCHLORIC ACID SOLUTION, 15 GAL CONTAINER DEPOSIT
				01 E 084 810 000 401 000 INV25004	WMS; LABOR AND MATERIALS
				01 E 084 810 000 305 000 01 E 084 810 000 401 000	
757801	08/31/2022	Imagine Learning LLC	57,500.00		
				892397	Edgenuity quote 273093
				01 E 005 211 160 555 000 01 E 083 211 317 430 000	
757802	08/31/2022	INNOVATIONAL WATER SOLUTIONS, INC.	628.50		
				13227	EMS; SYSTEM MANAGEMENT PROGRAM
				01 E 085 810 000 305 000 13228	WMS; BAG FILTERS
				01 E 084 810 000 305 000 13229	RO; FILTER
				01 E 864 810 000 305 000	
757803	08/31/2022	Innovative Office Solutions	3,616.10		

IN3898849	SWEENEY; POLISH
01 E 860 810 000 401 000	
IN3903616	RO; WIPES, CLEANER, SOAP
01 E 864 810 000 401 000	
IN3907824	RO; POLE & RECEPTACLE
01 E 864 810 000 401 000	
IN3907961	HS; 3 HOLE PUNCH, TRIMMER, EXPO MARKERS
01 E 083 292 000 410 300	
IN3908537	RO; CLEANER, SPONGE X2
01 E 864 810 000 401 000	
IN3908727	JACKSON; POLISHER
01 E 866 810 000 401 000	
IN3908751	SP; LABELS
01 E 861 203 000 430 204	
IN3908998	WMS; FOLDER
01 E 084 050 000 401 000	

757803	08/31/2022	Innovative Office Solutions	3,616.10
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IN3909098	SP; LABELS
01 E 005 211 160 140 000	
IN3910679	WMS; TAPE
01 E 084 050 000 401 000	
IN3911777	JACKSON; WASHER
01 E 866 810 000 401 000	
IN3912071	WMS; LABEL
01 E 084 050 000 401 000	
IN3912367	EC; WIPES, SCRAPER, CLEANER
01 E 865 810 000 401 000	
IN3913819	WMS; EASEL, TAPE, C;IP, GLOVES, GLUE, INDEX CARDS, SCISSORS
01 E 084 260 000 430 000	
IN3913893	SWEENEY; GUM REMOVER, LINER X2
01 E 860 810 000 401 000	
IN3914311	JACKSON; NOTEBOOK
01 E 200 219 317 401 000	
IN3916719	WMS; HOSE
01 E 084 810 000 401 000	
IN3916777	SWEENEY; FINISH
01 E 860 810 000 401 000	
IN3917193	WMS; DISPENSER
01 E 084 050 000 401 000	

757804	08/31/2022	Insight Public Sector, Inc	21,167.52
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1100971329	Erate 471 Year 2022-2023 - Network Implementations QUOTE 00445800v4 CISCO AGENT - STATE OF MINNESOTA TELECOM NETWORKING- GOVT(# 147097) LI 1-39 Open Market LI 40
05 E 200 630 795 556 000	

757805	08/31/2022	Intelligere	310.00	431039	INTERPRETER SERVICES; JULY
				01 E 200 412 419 358 000	
				04 E 500 580 325 358 000	
757806	08/31/2022	John's Sewer & Drain	240.00	INV164546	HS; CABLED 2 FLOOR DRAINS
				01 E 083 810 000 305 000	
757807	08/31/2022	Johnson Controls	288.00	89039254	RO; SERVICE CALL
				05 E 864 865 363 305 000	
757808	08/31/2022	Kemps LLC	89.60	102513692	PEARSON; 1%, CHOC
				02 E 005 770 709 495 000	
				102516296	PEARSON; 1%, CHOC
				02 E 005 770 709 495 000	
				102522338	PEARSON; 1%
				02 E 005 770 709 495 000	
757809	08/31/2022	Kuhlman, Lynn	100.00	47413	CE; DRIVERS ED REFUND
				04 R 500 249 321 040 000	
757810	08/31/2022	La Crosse Technology	399.12	3094565	RO; WALL CLOCK
				01 E 864 810 000 401 000	
				3094605	EC; WALL CLOCK
				01 E 865 810 000 401 000	
757811	08/31/2022	Lach, Theavy	50.00	08.23.22	INTERPRETER; HOME VISIT 08.23.22
				01 E 200 412 740 394 000	
757812	08/31/2022	Lakeville High School North	300.00	02.11.22	BOYS AND GIRLS CROSS COUNTRY ENTRY FEE; 09.16.22
				01 E 083 294 000 369 325	
				01 E 083 296 000 369 325	
757813	08/31/2022	Liebl, Michelle	50.00	08.17.22	INTERPRETER; HOME VISIT
				01 E 200 412 740 394 000	
757814	08/31/2022	Mackin Educational Resources	1,910.47	756444	WMS; 17 TITLES
				05 E 200 620 302 470 211	
				756445	HS; 14 TITLES
				05 E 200 620 302 470 211	
				757410	SP; 11 TITLES
				05 E 200 620 302 470 203	
				758478	EC; 7 TITLES
				05 E 200 620 302 470 203	
				758541	JACKSON; 10 TITLES
				05 E 200 620 302 470 203	
				758683	EMS; 22 TITLES
				05 E 200 620 302 470 211	

759374
05 E 200 620 302 470 203

RO; 53 TITLES

757815	08/31/2022	Malone, Olivia	42.50	08.06.22	CE; TECH FOR PRAIRIE FIRE THEATRE PINOCCHIO WMS
				04 E 500 585 332 188 000	
757816	08/31/2022	Mehta, Darshana	27.10	08.23.22	FS REFUND; #229432
				02 R 005 000 701 601 000	
757817	08/31/2022	Mei Total Elevator Solutions	343.50	978098	SP; LABOR
				01 E 861 810 000 305 000	
757818	08/31/2022	Mobymax Llc	1,759.00	378166	COMPLETE K-8 CURRICULUM
				04 E 703 590 351 460 000	
757819	08/31/2022	Navigate360, LLC	14,344.00	76377	ELEARNING SIPPOT & MAINTENANCE, ELEARNING USERS
				01 E 005 810 000 563 000	
757820	08/31/2022	NSAV Inc	217.85	INV/2022/00643	PANASONIC REPLACEMENT AIR FILTERS
				01 E 083 690 000 430 000	
757821	08/31/2022	Papco, INC.	1,292.22	110931	PEARSON; LABOR AND MATERIALS
				01 E 863 810 000 305 000	
				01 E 863 810 000 401 000	
				110932	SWEENEY; LABOR AND MATERIALS
				01 E 860 810 000 305 000	
				01 E 860 810 000 401 000	
757821	08/31/2022	Papco, INC.	1,292.22	225594	HS; BRUSH ASSEMBLY, GASKET, PUMP
				01 E 083 810 000 401 000	
				226046	PEARSON; LABOR AND MATERIALS
				01 E 863 810 000 401 000	
757822	08/31/2022	Pinnacle Wall Systems	2,009.00	22174	SP; PATCH MOISTURE/MOLD DAMAGED DRYWALL
				01 E 861 810 000 305 000	
				01 E 861 810 000 401 000	
757823	08/31/2022	Premium Water Co	46.00	330197-07-22	MONTHLY CHARGE; AUGUST
				01 E 860 050 000 490 000	
757824	08/31/2022	Prior Lake High School	140.00	07.05.22	SWIM/DIVE ENTRY FEE; 09.10.22
				01 E 083 296 000 369 340	

757825	08/31/2022	Quadient Finance USA, Inc.	39.00	08.03.22 01 E 005 110 000 329 000	POSTAGE
757826	08/31/2022	Quadient Leasing USA, Inc.	368.97	N9533433 01 E 084 050 000 329 000	WMS; LEASE PAYMENT
757827	08/31/2022	Quadient, Inc.	18.80	16756919 01 E 005 110 000 305 000	AUTOMATE USAGE TIER 2-SUP
757828	08/31/2022	Robbinsdale Area Schools	1,553.75	0000039052 01 E 200 794 000 390 000	NON SPED TUITION BILLING FOR CARE & TREATMENT; PHOENIX SCHOOL PROGRAM/HAZELDEN CENTER
757829	08/31/2022	Rooney, Phil	3,360.84	5241 01 E 005 810 000 353 000	SIGNS
757830	08/31/2022	Roufs, Connie	49.05	08.29.22 02 R 005 000 701 601 000	FS REFUND; #227849
757831	08/31/2022	Ryan Mechanical Inc	990.00	SD653 01 E 864 810 000 305 000 SD657 01 E 084 810 000 305 000 01 E 084 810 000 401 000	RO; NEW CARTRIDGES FOR MOP SINK FAUCET WMS; SINK FALLING OFF WALL
757832	08/31/2022	Sadlier, William H	14,741.04	INV138300 04 E 703 590 351 460 000 INV141034 04 E 701 590 351 460 000 INV141193 04 E 703 590 351 460 000	LIVING HOPE FY23 ORDER; 9001-5, 9002-2, 9003-9, 9004-6, 9043-5, 9044-2, 8993-4, 8994-1, 8995-8 PO ASSOCIATED 590230003 SACS Math Adoption QUOTE: QO30716 Budget Code: 04-701-590-351-460-000 LIVING HOPE FY23 ORDER; 7500-5 PO ASSOCIATED 590230003
757832	08/31/2022	Sadlier, William H	14,741.04	INV141194 04 E 703 590 351 460 000 INV141730 04 E 701 590 351 460 000	LIVING HOPE FY23 ORDER; 7501-2 PO ASSOCIATED 590230003 SACS Math Adoption QUOTE: QO30716 Budget Code: 04-701-590-351-460-000

757833	08/31/2022	School Specialty, LLC	317.52	208130530003	RO; LAMINATING FILM, LABEL LASER ADDRESS
				01 E 864 203 000 430 000	
757834	08/31/2022	Science Explorers	627.00	4887	CE; SHOCKING ELECTRICAL ENGINEERING
				04 E 500 585 332 305 000	
757835	08/31/2022	Scott County	3,796.00	2022-2ND	2022 2ND PROPERTY TAX PAYMENT; PROPERTY ID: 069240140
				01 E 200 794 000 305 000	
757836	08/31/2022	Scott County Treasurer	81,762.77	11786-39	2ND QTR 2022 NON-BILLABLE THERAPIST TIME
				01 E 200 794 000 305 000	
				38	MG 2ND QTR 22 CONTRACT; SUPERVISION/ADMINISTRATION
				01 E 200 794 000 305 000	
757837	08/31/2022	Shakopee Public Utility Commis	188,500.99	1310-001 08.22.22	CFC; ELECTRIC & WATER
				01 E 863 810 000 330 000	
				01 E 863 810 000 331 000	
757837	08/31/2022	Shakopee Public Utility Commis	188,500.99	1310-002 08.22.22	CFC; WATER
				01 E 863 810 000 331 000	
				13508-001 08.22.22	RO; WATER
				01 E 864 810 000 331 000	
				13508-002 08.22.22	WMS; ELECTRIC
				01 E 084 810 000 330 000	
				22027-001 08.22.22	RO; ELECTRIC & WATER
				01 E 864 810 000 330 000	
				01 E 864 810 000 331 000	
				22027-002 08.22.22	RO; WATER
				01 E 864 810 000 331 000	
				22027-003 08.22.22	RO; WATER
				01 E 864 810 000 331 000	
				2258-001 08.22.22	SWEENEY; WATER
				01 E 860 810 000 331 000	
				2259-001 08.22.22	SWEENEY; WATER
				01 E 860 810 000 331 000	
				2259-002 08.22.22	SWEENEY; ELECTRIC
				01 E 860 810 000 330 000	
				23457-001 08.22.22	HS; ELECTRIC, WATER
				01 E 083 810 000 330 000	
				01 E 083 810 000 331 000	
				23457-002 08.22.22	HS; ELECTRIC
				01 E 083 810 000 330 000	
				23457-003 08.22.22	HS; WATER
				01 E 083 810 000 331 000	
				23457-004 08.22.22	EC; ELECTRIC, WATER

01 E 865 810 000 330 000
 01 E 865 810 000 331 000
 23457-006 08.22.22 EC; WATER
 01 E 865 810 000 331 000

757837 08/31/2022 Shakopee Public Utility Commis 188,500.99

23457-007 08.22.22 HS; ELECTRIC, WATER
 01 E 083 810 000 330 000
 01 E 083 810 000 331 000
 23457-008 08.22.22 JACKSON; ELECTRIC, WATER
 01 E 866 810 000 330 000
 01 E 866 810 000 331 000
 23457-009 08.22.22 JACKSON; WATER
 01 E 866 810 000 331 000
 23457-010 08.22.22 DO; ELECTRIC
 01 E 200 810 000 330 000
 23457-011 08.22.22 HS; ELECTRIC
 01 E 083 810 000 330 000
 23457-013 08.22.22 HS; ELECTRIC
 01 E 083 810 000 330 000
 23457-014 08.22.22 HS; ELECTRIC
 01 E 083 810 000 330 000
 2679-003 08.22.22 WMS; ELECTRIC
 01 E 084 810 000 330 000
 2679-004 08.22.22 GROUNDS SHOP; ELECTRIC
 01 E 005 810 000 330 000
 2680-001 08.22.22 WMS; ELECTRIC, WATER
 01 E 084 810 000 330 000
 01 E 084 810 000 331 000
 2682-002 08.22.22 WMS; ELECTRIC
 01 E 084 810 000 330 000
 3020-001 08.22.22 PEARSON; WATER
 01 E 862 810 000 331 000
 3949-001 08.22.22 EMSL ELECTRIC, WATER
 01 E 085 810 000 330 000
 01 E 085 810 000 331 000

757837 08/31/2022 Shakopee Public Utility Commis 188,500.99

3949-002 08.22.22 EMS; WATER
 01 E 085 810 000 331 000
 3949-003 08.22.22 EMS; ELECTRIC
 01 E 085 810 000 330 000
 3951-001 08.22.22 EMS; WATER
 01 E 085 810 000 331 000
 4330-001 08.22.22 WMS; ELECTRIC, WATER
 01 E 084 810 000 330 000
 01 E 084 810 000 331 000
 5484-001 08.22.22 EMS; WATER
 01 E 085 810 000 331 000
 5878-001 08.22.22 SWEENEY; ELECTRIC
 01 E 860 810 000 330 000
 6561-001 08.22.22 PEARSON; ELECTRIC

				01 E 863 810 000 330 000	
				9846-001 08.22.22	SP; ELECTRIC, WATER
				01 E 861 810 000 330 000	
				01 E 861 810 000 331 000	
				9848-001 08.22.22	SP; WATER
				01 E 861 810 000 331 000	
				9850-001 08.22.22	SP; WATER
				01 E 861 810 000 331 000	
757838	08/31/2022	Sherwin Williams	208.22		
				4601-5	PAINT/SUPPLIES
				01 E 084 810 000 401 000	
757839	08/31/2022	Symmetry Energy Solutions, LLC	16,687.41		
				14167094	MONTHLY CHARGES; 06.30-07.31
				01 E 083 810 000 333 000	
				01 E 084 810 000 333 000	
757839	08/31/2022	Symmetry Energy Solutions, LLC	16,687.41		
				01 E 085 810 000 333 000	
				01 E 861 810 000 333 000	
				01 E 863 810 000 333 000	
				01 E 864 810 000 333 000	
				01 E 865 810 000 333 000	
				01 E 866 810 000 333 000	
757840	08/31/2022	Trugreen-Burnsville	14,126.70		
				1633446915	CFC; LAWN CARE
				01 E 005 810 000 353 000	
				163387520	PEARSON; LAWN CARE
				01 E 005 810 000 353 000	
				163404204	SP; LAWN CARE
				01 E 861 810 000 353 000	
				163420465	JACKSON; LAWN CARE
				01 E 866 810 000 353 000	
				163451016	HS; LAWN CARE
				01 E 005 810 000 353 000	
				163477253	RO; LAWN CARE
				01 E 005 810 000 353 000	
				163496744	EC; LAWN CARE
				01 E 005 810 000 353 000	
				163533390	EMS; LAWN CARE
				01 E 005 810 000 353 000	
				163533415	WMS; LAWN CARE
				01 E 005 810 000 353 000	
				163533448	SWEENEY; LAWN CARE
				01 E 005 810 000 353 000	
				163708677	SOCCER FIELDS; LAWN CARE
				01 E 005 810 000 353 000	
757841	08/31/2022	University Of Oregon	350.00		
				144411	SP; SWIS ANNUAL LICENSE
				01 E 861 298 000 401 000	
757842	08/31/2022	Verizon Wireless	1,270.06		
				9913101879	SERVICE CHARGES; 07.11-08.10

01 E 005 020 000 320 000
 01 E 005 030 000 320 000
 01 E 005 605 313 320 000
 01 E 005 810 000 320 000
 01 E 083 810 000 320 000
 01 E 084 810 000 230 000
 01 E 085 810 000 320 000
 01 E 200 610 308 320 000
 01 E 200 680 000 320 000
 01 E 860 810 000 320 000
 01 E 861 810 000 320 000
 01 E 863 810 000 320 000
 01 E 864 810 000 320 000
 01 E 865 810 000 320 000
 01 E 866 810 000 320 000

757843 08/31/2022 Wassink, Ryan 735.00

61 SPEEDFLEX S-L

01 E 083 294 000 410 303

757844 08/31/2022 Waste Management 4,641.38

8762467-2282-4 SP; WASTE REMOVAL; AUGUST

01 E 861 810 000 332 000

8762468-2282-2 SWEENEY; WASTE REMOVAL; JULY

01 E 860 810 000 332 000

757844 08/31/2022 Waste Management 4,641.38

8762469-2282-0 JACKSON; WASTE REMOVAL - AUGUST

01 E 866 810 000 332 000

8762470-2282-8 EC; WASTE REMOVAL; AUGUST

01 E 865 810 000 332 000

8762471-2282-6 RO; WASTE REMOVAL; AUGUST

01 E 864 810 000 332 000

8762472-2282-4 HS; WASTE REMOVAL; AUGUST

01 E 083 810 000 332 000

8762473-2282-2 EMS; WASTE REMOVAL; AUGUST

01 E 085 810 000 332 000

8762478-2282-1 HS; WASTE REMOVAL; AUGUST

01 E 083 810 000 332 000

8762479-2282-9 WMS; WASTE REMOVAL; AUGUST

01 E 084 810 000 332 000

8763152-2282-1 PEARSON; AUGUST WASTE REMOVAL

01 E 865 810 000 332 000

8763965-2282-6 DO; WASTE REMOVAL; AUGUST

01 E 005 810 000 332 000

8776069-2282-2 HS; WASTE REMOVAL - AUGUST

01 E 083 810 000 332 000

757845 08/31/2022 WL COLLINS CORP INC 822.41

408821 ACT/ATH; WRIST SPLINT,
 POWERFLEX, TA,PMS. CLOWN NOSE
 SPIGOT

01 E 083 292 000 437 300

757846	08/31/2022	Woitaszewski, Scott Allen	1,500.00	202211	PREPaRE WORKSHOP 1 CO FACILITATOR SPEAKER FEE; 08.16.22
				01 E 005 790 342 305 000	
757847	08/31/2022	Youth Enrichment League	5,877.00	4581	CE; WOODWORKING, PROJECT RUNWAY, FENCING, BEGINNER GUITAR

Check Number	Check Date	Employee	Net Check Amount	Payroll Run Description
757631	8/12/2022	Guerrero Garcia, Daniela	180.08	8.12.22 Bi-Weekly Payroll
757632	8/12/2022	Kelly, Mitchell L	281.53	8.12.22 Bi-Weekly Payroll
757633	8/12/2022	Lucho Corado, Katherine	229.83	8.12.22 Bi-Weekly Payroll
757634	8/12/2022	Riffe, Elizabeth A	137.29	8.12.22 Bi-Weekly Payroll
757635	8/12/2022	Urquidez, Ximena E	254.55	8.12.22 Bi-Weekly Payroll
757636	8/12/2022	Muenchow, Kurt A	986.34	8.12.22 Bi-Weekly Payroll
757637	8/12/2022	Olson, Neal	94.2	8.12.22 Bi-Weekly Payroll
757638	8/12/2022	Brown, Johnathan D	1,175.31	8.12.22 Bi-Weekly Payroll
757639	8/12/2022	Fritze, Ryan E	1,436.53	8.12.22 Bi-Weekly Payroll
757640	8/12/2022	Gregor, Dena Catherine	458.97	8.12.22 Bi-Weekly Payroll
757641	8/12/2022	Kroll, Cheresé A	282.76	8.12.22 Bi-Weekly Payroll
757642	8/12/2022	Weierke, Nicholas J	175.69	8.12.22 Bi-Weekly Payroll
757649	8/18/2022	Guerrero Garcia, Daniela	368.15	8.18.22 QPx2 Lang & Garcia
757728	8/26/2022	Allen, Jennifer C	1,571.93	8.26.22 Bi-Weekly PR
757729	8/26/2022	Bensen, Andrew T	1,193.44	8.26.22 Bi-Weekly PR
757730	8/26/2022	Bruch-Andersen, Elizabeth G	1,171.59	8.26.22 Bi-Weekly PR
757731	8/26/2022	Burke-Smith, Bridgit M	1,538.47	8.26.22 Bi-Weekly PR
757732	8/26/2022	Carlson, Daniel J	1,909.18	8.26.22 Bi-Weekly PR
757733	8/26/2022	Deaton, Zachary S	892.79	8.26.22 Bi-Weekly PR
757734	8/26/2022	Easton, Harrison B	1,455.59	8.26.22 Bi-Weekly PR
757735	8/26/2022	Feucht, Callan M	1,301.16	8.26.22 Bi-Weekly PR
757736	8/26/2022	Guerrero Garcia, Daniela	301.59	8.26.22 Bi-Weekly PR
757737	8/26/2022	Henes, Mitchell G	1,193.02	8.26.22 Bi-Weekly PR
757738	8/26/2022	Hoffman, Kjersta L	1,389.17	8.26.22 Bi-Weekly PR
757739	8/26/2022	Huaman, Guillermo L	1,793.14	8.26.22 Bi-Weekly PR
757740	8/26/2022	Jarzemski, Brittany A	1,250.21	8.26.22 Bi-Weekly PR
757741	8/26/2022	Lavrenz, Katelyn G	1,368.14	8.26.22 Bi-Weekly PR
757742	8/26/2022	Mace, Christi Jo	2,003.12	8.26.22 Bi-Weekly PR
757743	8/26/2022	Stephani, Jeffrey H	2,274.45	8.26.22 Bi-Weekly PR
757744	8/26/2022	Tesdahl, Brady S	3,434.01	8.26.22 Bi-Weekly PR
757745	8/26/2022	Tyler, Tamra C	2,425.18	8.26.22 Bi-Weekly PR
757746	8/26/2022	Urquidez, Ximena E	141.47	8.26.22 Bi-Weekly PR
757747	8/26/2022	Van Krevelen, Alex T	2,570.13	8.26.22 Bi-Weekly PR
757748	8/26/2022	Weir, Kelly L	1,492.39	8.26.22 Bi-Weekly PR
757749	8/26/2022	Van Cleve, Mercedes W	73.88	8.26.22 Bi-Weekly PR
757750	8/26/2022	Muenchow, Kurt A	986.34	8.26.22 Bi-Weekly PR
757751	8/26/2022	Ammerman, Elisabeth A	2,000.98	8.26.22 Bi-Weekly PR
757752	8/26/2022	Dussik, Christian Robert Grey	80.05	8.26.22 Bi-Weekly PR
757753	8/26/2022	King, Rex	676.35	8.26.22 Bi-Weekly PR
757754	8/26/2022	Olson, Neal	1,442.10	8.26.22 Bi-Weekly PR
757755	8/26/2022	Brown, Johnathan D	536.26	8.26.22 Bi-Weekly PR
757756	8/26/2022	Busch, Matthew M	1,494.65	8.26.22 Bi-Weekly PR
757757	8/26/2022	Fritze, Ryan E	1,864.71	8.26.22 Bi-Weekly PR
757758	8/26/2022	Gregor, Dena Catherine	94.43	8.26.22 Bi-Weekly PR
757759	8/26/2022	Hoffman, Kathryn R	1,931.02	8.26.22 Bi-Weekly PR
757760	8/26/2022	Meyer, Katelyn C	1,007.90	8.26.22 Bi-Weekly PR
757761	8/26/2022	Simmons, Roy D	66.67	8.26.22 Bi-Weekly PR
757762	8/26/2022	Slaughter, Duane L	603.74	8.26.22 Bi-Weekly PR
757763	8/26/2022	Weierke, Nicholas J	92.12	8.26.22 Bi-Weekly PR

Bank Account - Wires Out

Date	Description	Amount
8/1/2022	403(b) contributions	147,169.25
8/1/2022	HealthPartners premium	3,663.36
8/1/2022	IRS Federal tax ACH	525,193.73
8/2/2022	Work comp insurance premium	17,714.00
8/2/2022	Payroll direct deposit	282.76
8/2/2022	PERA ACH	49,897.56
8/2/2022	State of MN taxes ACH	87,058.50
8/2/2022	TRA ACH	294,057.94
8/3/2022	Miscellaneous service charge	74.50
8/4/2022	Flex plan contributions	48,855.20
8/5/2022	Flex plan contributions	777.82
8/5/2022	Payroll deduction	1,347.63
8/5/2022	Community Ed credit card processing fee	1,636.72
8/5/2022	Flex plan contributions	2,007.00
8/8/2022	Payroll direct deposit	629.22
8/8/2022	Flex plan contributions	10,105.80
8/11/2022	Flex plan contributions	10,099.89
8/11/2022	Payroll direct deposit	1,511,711.85
8/12/2022	Flex plan contributions	80.00
8/12/2022	Payroll deduction	150.00
8/12/2022	Payroll deduction	253.90
8/12/2022	Flex plan contributions	400.00
8/12/2022	IRS Federal tax ACH	499,017.43
8/15/2022	Flex plan contributions	191.21
8/15/2022	State of MN taxes ACH	78,250.41
8/16/2022	Payroll direct deposit	1,540.34
8/18/2022	Flex plan contributions	12,244.54
8/19/2022	PERA ACH	47,239.96
8/19/2022	TRA ACH	253,320.03
8/22/2022	Flex plan contributions	3,376.44
8/24/2022	403(b) contributions	105,688.97
8/24/2022	TRA ACH	40,800.32
8/25/2022	Flex plan contributions	38,292.59
8/25/2022	Payroll direct deposit	1,607,777.16
8/26/2022	Payroll deduction	150.00
8/26/2022	Payroll deduction	253.90
8/26/2022	Flex plan contributions	1,165.04
8/26/2022	TRA ACH	5,976.69
8/26/2022	Payroll deduction	16,558.72
8/29/2022	Payroll direct deposit	719.66
8/29/2022	IRS Federal tax ACH	591,275.42
8/30/2022	PERA ACH	47,973.35
8/30/2022	State of MN taxes ACH	101,135.62
8/30/2022	TRA ACH	326,096.69
8/31/2022	403(b) contributions	142,625.11
8/31/2022	Bank service charge	1,132.24
		<hr/>
		6,635,968.47



PO Box 470 • 255 Sarazin Street
Shakopee, Minnesota 55379
Main 952.445-1988 • Fax 952.445-7767
www.shakopeeutilities.com

DATE: September 21, 2022

TO: Michael Redmond, Shakopee School Superintendent

FROM: Greg Drent, General Manager Shakopee Utilities *GD*

Subject: Solar for Schools Program

Shakopee Public Utilities (SPU) is excited to partner with Shakopee Schools on the Solar for Schools Grant Program at two facilities. The state legislature established this program in 2021. The solar for Schools Grant Program is designed to stimulate the installation of solar energy systems on Minnesota public schools, K-12 as well as state colleges and universities while using the opportunity to integrate renewable energy use into the school curriculum.

Shakopee Schools and SPU have been meeting regarding the program and discussing what savings the school district could see on their electric utility bill. After much discussion, it was decided that SPU would take the lead on updating the Solar for Schools grant application (attached is the grant application). SPU was confident there was a way to get this program in place so the school could see significant savings. The school district was awarded a grant for \$102,000 for each school from the Department of Commerce. SPU is also offering a rebate of \$2,000 on each system.

The attached proposal from Choice Electric of Shakopee is for installing two 40-Kilowatt solar panel systems at \$120,000 for each system. The system proposed is a central inverter grid-tie system. The system will utilize the UNIRAC mounting system. The UNIRAC system is ballasted, requiring no penetrations through the existing roofs. The module Choice Electric will utilize is the VSUN 455 wall module with SOLAREEDGE optimizers for every two modules. The system will be 480-volt three-phase connection. The inverter output will be tuned to no more than 39.9KW. Choice Electric has experience installing solar systems and will attend the school board meeting to answer any questions.

After the grant and rebate, the total cost to the Shakopee School district will be \$16,000 per school. The cost saving ranges from \$4,000 to \$5,000 annually, depending on the output of the solar generation and utility rates. The payback on your investment for the solar installation will be 4 to 5 years. The life expectancy of the solar system is 25 to 30 years.

I plan to attend the school board meeting to discuss this project and answer any questions.

**Memorandum of Understanding (MOU):
(Shakopee’s Sweeney Elementary - Solar for Schools Project SFS22-1051)**

This MOU establishes a mutual understanding between potential Solar for Schools grant recipient, Shakopee School District, (“Grantee”) and Shakopee Public Utilities (“Utility”) regarding Grantee’s installation of a solar photovoltaic system (“System”) made possible, in part, by the Solar for Schools grant program (“SFS”) under [Minnesota Statutes § 216C.375](#). The intent of this MOU is to allow Utility the opportunity to provide input and clarity related to the below listed topics, assisting with the accuracy, and streamlining of the System procurement and installation process. This MOU does not create or replace any existing rates or tariffs currently in effect as established by Utility.

SFS was established by the State Legislature in 2021 and designed to provide grants to stimulate the installation of solar energy systems on or adjacent to school buildings by reducing the cost, and to enable schools to use the solar energy system as a teaching tool that can be integrated into the school’s curriculum. The Minnesota Department of Commerce developed and administers SFS for schools outside of Xcel Energy Territory ([Minn. Stat. § 216C.375](#)).

Utility and Grantee mutually understand that:

- ❖ the intent of financial information submitted here is to inform Grantee’s financial modeling of the System;
- ❖ the assumptions utilized in financial modeling of the System have significant impact on the projected lifetime cashflow and subsequent overall value of the System;
- ❖ Utility rates are regulated, and customers, including Grantee, have the ability to provide input;
- ❖ future changes to Grantee’s electric rate and tariff cannot be precisely predicted, however, Utility may be able to improve financial modeling due to knowledge about its power supply and other utility costs which influence Grantee’s electric rate; and
- ❖ the information submitted here is true and accurate to the best of Utility’s knowledge.

[Check All] System Interconnection:

- Utility has reviewed the SFS System contract with Grantee selected solar developer and/or has engaged in discussion(s) with Grantee pertaining to the SFS System contract with Grantee selected solar developer.
- As the SFS System is shown to be designed and financed, Utility, as of the date under Utility’s signature below, does not foresee any issues that would prevent System interconnection from proceeding.

[Check One or More] Electric Rate Escalator Assumption:

- Utility Submits the Following Average Historical Commercial Electric Rate Increase: See Attached Table
- Utility Submits the Following Future Forecasted Commercial Electric Rate Increase: See Attached Table
- Based on the above submitted historical and/or future forecasted commercial electric rate escalations, Utility recommends Grantee use the following average annual \$/kWh rate increase to inform the financial modeling of the System for the next 25 years of energy production:

[Check One] System Impact on Grantee Electric Tariff:

With current System design, in combination with known historical or project Grantee electricity use, Utility does not foresee that the interconnection of the System would result in Grantee transitioning to an alternate electric rate or tariff.

With current System design, in combination with known historical or project Grantee electricity use, Utility does foresee that the interconnection of the System would result in Grantee transitioning to an alternate electric rate or tariff

Utility unable to determine this based on the following factors.

Utility's authorized representative

Signature Greg Drent

Name Greg Drent

Title General Manager

Date 9/21/22

Grantee's authorized representative

Signature _____

Name _____

Title _____

Date _____

SLS Summary
8-Year Historical Data

Load Year	Usage	Annual Total Charges	Average cost per kWh	Year over Year Change
2011	XXX	XXX	XXX	XXX
2012	XXX	XXX	XXX	XXX
2013	742,120	\$ 87,199.72	\$ 0.1175	XXX
2014	683,899	\$ 85,268.99	\$ 0.1247	0.0072
2015	725,746	\$ 94,527.95	\$ 0.1302	0.0056
2016	986,293	\$ 120,418.75	\$ 0.1221	(0.0082)
2017	944,558	\$ 159,116.96	\$ 0.1685	0.0464
2018	818,160	\$ 104,718.13	\$ 0.1280	(0.0405)
2019	686,440	\$ 89,376.87	\$ 0.1302	0.0022
2020	798,680	\$ 93,026.13	\$ 0.1165	(0.0137)
2021	943,960	\$ 126,311.21	\$ 0.1338	0.0173

These figures include the following service points
 Middle School #2: 3949-003
 Central Elem: 1310-001
 District Office: 23457-010
 Pearson: 6561-001
 Sweeney: 2259-002

** Please note that years 2011 & 2012 are not available in current system

SIS Summary
8-Year Historical Data

Load Year	Usage	Annual Total Charges	Average cost per kWh	Year over Year Change
2011	XXX	XXX	XXX	XXX
2012	XXX	XXX	XXX	XXX
2013	8,131,979	955,513.99	0.1175	XXX
2014	8,444,036	1,052,808.82	0.1247	0.0072
2015	8,960,720	1,067,813.12	0.1192	(0.0055)
2016	9,187,960	1,051,736.48	0.1145	(0.0047)
2017	8,509,474	995,141.56	0.1169	0.0025
2018	10,101,750	1,193,485.94	0.1181	0.0012
2019	10,191,190	1,239,216.42	0.1216	0.0035
2020	8,331,060	1,018,910.57	0.1223	0.0007
2021	8,915,900	1,100,638.17	0.1234	0.0011

These figures include the following service points
 Eagle Creek: 23457-004
 High School 1: 23457-001
 High School 4: 23457-011
 Jackson Elem: 23457-008
 Middle School 1: 3949-001
 Red Oak: 22027-001
 SunPath: 9846-001
 Sweeney: 5878-001
 West Jr. High: 2680-001
 High School 2: 23457-002

** Please note that years 2011 & 2012 are not available in current system

SLS Summary
10-Year Projections
(1% Increase Annually)

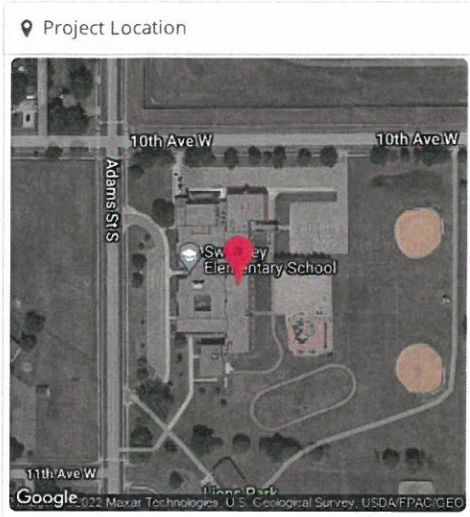
Load Year	Average cost per kWh Increase
2022	\$ 0.1351
2023	\$ 0.1365
2024	\$ 0.1379
2025	\$ 0.1392
2027	\$ 0.1406
2028	\$ 0.1420
2029	\$ 0.1435
2030	\$ 0.1449
2031	\$ 0.1463
2032	\$ 0.1478

SIS Summary
10-Year Projections
(1% Increase Annually)

Load Year	Average cost per kWh Increase
2022	\$ 0.1247
2023	\$ 0.1259
2024	\$ 0.1272
2025	\$ 0.1285
2027	\$ 0.1297
2028	\$ 0.1310
2029	\$ 0.1324
2030	\$ 0.1337
2031	\$ 0.1350
2032	\$ 0.1364

Design 1 Sweeney Elementary, 1001 Adams St S, Shakopee, MN 55379

Design	
Design	Design 1
DC Nameplate	52.3 kW
AC Nameplate	40.0 kW (1.31 DC/AC)
Last Modified	Van Meter (Yesterday at 3:50 PM)

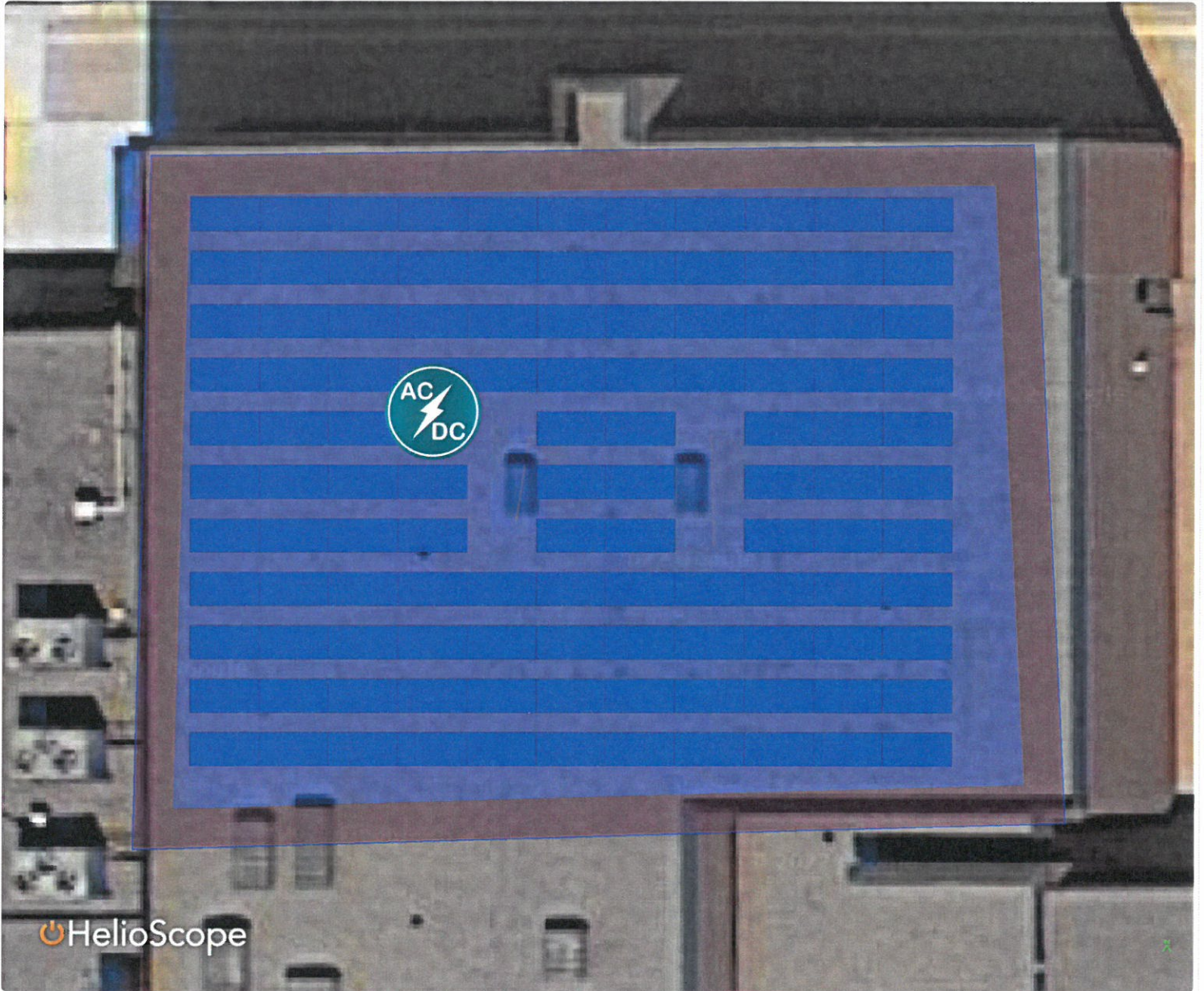


Components		
Component	Name	Count
Inverters	SE40KUS (2021) (SolarEdge)	1 (40.0 kW)
Strings	10 AWG (Copper)	4 (271.6 ft)
Optimizers	P960 (2022) (SolarEdge)	59 (56.6 kW)
Module	VSUN, VSUN455-144BMH (455W)	115 (52.3 kW)

Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Fixed Tilt	Landscape (Horizontal)	10°	180°	2.0 ft	1x1	115	115	52.3 kW

Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	13-33	Along Racking

Detailed Layout



Shakopee Public School District - Sweeney Elementary School

Grant Application-Solar for Schools Program

Shakopee Public School District

Ed Zeimet

ezeimet@shakopee.k12.mn.us

Application Form

Step 2: Full Grant Application

Project Name*

Shakopee Public School District - Sweeney Elementary School

Solar for Schools Unique Project ID Number

Please enter your SFS Unique Project ID Number (including hyphens "-" using the format *SFS22-####*).

Applicants must obtain a unique project ID number from the Department *for each school/building applying* by emailing SolarForSchools@state.mn.us to request an ID. The email must include the Applicant's primary point of contact's name, title, phone number, and email address along with the site school/building name, school district/university or college system, district number, and office mailing address.

The ID must be included on all correspondences, including the Assessment, and during any phone calls with the Department. Applicants should plan for no less than one business day to receive their ID.

SFS22-1051

Developer Primary Contact Information

Provide the following primary contact information the Applicant's selected Developer.

Name (First and Last)*

Jesse Thompson

Title*

Vice President - Estimator

Email Address*

jthompson@choiceelec.com

Developer Name*

Choice Electric Inc

A. Project Information

System Updates from Step 1

Submit the Final System Size/Capacity (kWac)*

If the anticipated System size/capacity from Step 1 has changed, please provide the update here. The Applicant response from Step 1 has been populated below for your reference.

39.9

Submit the anticipated System size/capacity (kWac)

40

Final Annual Energy Production Estimate:*

The Applicant estimate of annual energy production from Step 1 has been populated below for your reference. Upload the System's expected Year 1 production calculations, broken down by month, and taking into account shade profile and other losses. **Include the percentage of annual energy this system is expected to offset for the Applicant.**

Sweeney Production Calcs.pdf

Estimated Annual Energy Production

Submit the estimated annual energy production, based on the Solar Suitability App (solar.maps.umn.edu/app/) for shade analysis in combination with PVwatts (<https://pvwatts.nrel.gov>) for production estimates or upload a copy of a virtual or preliminary site assessment. If uploading a document, type "see uploaded site assessment."

See uploaded site assessment.

Updates to System Site*

The Applicant's System site description from Step 1 has been populated below for your reference. Describe the final System design including details pertaining to the installation site, and/or upload updates pertaining to the site and System. Be sure to describe any known needs or issues which impacted the installation, energy production, or cost (e.g., percentage of site shading, roof age, roof vs. ground mounted, snow loss assumptions).

This will be a 51.87kW DC rooftop ballasted system. We have chosen the area of the school with the largest roof. There are no shading concerns in this area.

System Site

Describe the site on or at which the System will be installed (e.g., roof or ground mounted) and any known needs or issues which may impact the installation or cost (e.g., shading, roof age vs. ground mounted).

A rooftop ballasted solar array will be installed. The Solar Array will be installed in areas that are not shaded to maximize performance. Our developer's engineers will work with the District's facilities staff to select roof locations best suited for solar.

System Project Details**System Site Plan***

Upload the System's site plan.

[Unanswered]

System Modules.*

List the number used, type/model, rated capacity of the System's modules.

(114) VSUN/VSUN455-144BMH, 455W

System Inverters*

List the number and type/model of inverters used.

(1) SolarEdge 40 kWac

Describe the permitting and interconnection process for the System*

Detail the Developer's processes and estimated timelines *in combination with* all relevant information gathered via **ongoing** communications with the Applicant as well as the Applicant's electric utility provider. Do you anticipate any delays or issues related to interconnection of the System (related to the Developer, Applicant, electric utility, or otherwise)?

Choice Electric has completed electrical designs and structural analysis for the solar array ballasted system. Choice Electric has submitted the interconnection application to Shakopee Public Utilities. Anticipated interconnection application approval in about 30 days after submittal (approximately the mid-October). After interconnection approval is received, Choice Electric will apply for electrical and building permits with the City of Shakopee. The building permit usually takes a few weeks for approval. Choice Electric will also procure the remaining system equipment at this time.

Construction of the solar array system will be scheduled after interconnection approval is received from Shakopee Public Utilities, all permits are obtained, and parts are received (October/November)

Construction of the system usually takes a few weeks. We anticipate we will start construction around October. Once construction is completed on the solar array system, an electrical inspection will be scheduled with the Electrical Inspector. After the system passes electrical inspection, we will work with Shakopee Public Utilities to schedule system commissioning. Anticipated system commissioned around November/December 2022. Choice will schedule an inspection to close out the building permit after the system is commissioned.

Choice Electric is ready to execute on this project and does not anticipate any delays or issues with the District or the utility. If any issues arise, we will work with the District and utility to address the issues in a timely manner so that the project can be completed as planned.

Upload a one-line diagram, with legend, of the System*

[Unanswered]

Upload copy of Developer System proposal and System contract agreement*

In (1) combined PDF document, upload a copy of the System proposal and proposed (or signed) contract agreement between the Applicant and the Developer. Document must, on some prominent way, list and highlight the System's total lifecycle cost, detailing costs pertaining to end-of-life removal and disposal, fair market value

provisions, and the responsibility for the System's operations and maintenance. *Details pertaining to these requirements can be found on the RFP Q&A, questions 15 - 17.*

[Unanswered]

B. Curriculum

Curriculum Instructions:

At the time of Step 1: School Readiness Assessment, schools submitted a plan for how the System will be utilized as a learning tool for students. The Applicant's Step 1 answers are also provided for reference. Provide any updates or additional detail to each section.

Updates to Curriculum Team*

If there were any changes to staffing in teachers, staff or other individuals since Step 1 was submitted, please provide those updates here. Applicant responses from Step 1 are populated below for your reference. If no changes, type 'no changes.'

Nancy Thul, Director of Teaching & Learning, nthul@shakopee.k12.mn.us

Monica Miller, Learning Teacher & Equity Coordinator, mamiller@shakopee.k12.mn.us

List Curriculum Team

List the name(s), title(s), and e-mail(s) of all teachers, staff, or other individuals participating in the development and integration of renewable or clean energy content into the school curriculum.

Nancy Thul will be mainly responsible for working with our teachers and staff to incorporate the curriculum provided by our developer. Additional contacts can be provided as the program is finalized.

Curriculum Development Updates*

Applicants are expected to demonstrate progress in curriculum development integration and/or planning. List any updates, changes, or additions regarding curriculum development and integration plans since Step 1 was submitted, including the level and type of assistance planned via the Developer. Describe here and/or upload below. Applicant responses from Step 1 are populated below for your reference. If no changes, type 'no changes.'

Applicants will be required to submit proof of further curriculum development and updates as part of Grant Contract deliverables.

MMPA Hometown Solar_Energy Education_Shakopee.pdf

Sweeney Elementary (K-5) is currently training teachers on new science curriculum to be implemented in the fall but they are interested in piloting some of the lessons in 5th grade, especially the activities around the real-time data.

Shakopee Public Utilities will assist the School District in implementing MMPA's Energy Education Lesson Plan Concepts to teachers.

Curriculum Development

Describe the curriculum development or integration plan. Be sure to include what has been accomplished to date and goal timelines.

We anticipate using the Education Curriculum provided by our developer that is designed to meet Minnesota State Standards, Next Generation Science Standards & 21st Century Learning Frameworks. The Curriculum

leverages the school's actual Solar Array that provides real-time on-line monitoring. We will work with our education staff to find paths to integrate the curriculum and its resources into the classrooms.

System's Real-Time Monitoring*

Describe how the System will relay real-time monitoring, and other related visible design components, as part of the curriculum. Describe if monitoring will be done in a prominent location and/or available on demand in the classroom.

Upload supporting documentation in PDF format as appropriate.

Choice Electric spoke with the distribution vender, Van Meter, and they had explained that the SolarEdge inverter has an app that can display the real-time production of the system. Shakopee will work with IT staff to determine options for adding the real-time monitoring to the website for public display as well as displays throughout the buildings.

C. Financing/Financial Need

Detailed Full Project Budget*

Describe the System's full project budget, including all funding or financing sources, mechanisms, and level of support. Indicate if each source is secure, proposed or unknown. Include the requested Solar for Schools final requested grant amount up to or below the maximum allowable grant value determined in Step 1, populated below for your reference. Be sure to also detail any payment schedule for the System between Applicant and Developer as well as the cost to purchase and install the System. **You will also be required, in a subsequent question, to also upload a PDF document with this information in table format.**

NOTE:

- Eligible costs include only the necessary costs to *purchase* and *install* that System, and does not include other costs such as those related to disposal and removal or operating and maintenance
- The final grant value is a *percentage* of the final System installation cost, in conjunction with the '% System Cost' limit.
- Any grants awarded will be done so preliminarily and on the condition that Grantee provide proof of funding sources or mechanisms covering any remaining costs associated with the purchase and installation of the System not covered by the Solar for Schools grant.

The system's full project budget is provided on the attached PDF. Primary funding for the project will come from the Maximum Allowable Grant Amount of \$102,000. The remainder of the project funding will be from Shakopee Public Schools capital reserves.

Identify Maximum Allowable Grant

Identify the **maximum allowable** grant, based on financial need as defined via Table 1 in the RFP, or posted on the Department's Solar for Schools page. Note, if deemed ready, the Full Grant Application will require submission of the actual project costs to the Department; the final grant award will be determined based on the maximum allowable grant thresholds in combination with known matching funds, not to exceed the full project cost.

\$102,000.00

Developer's Plans to Reduce Capital Expenses*

Describe any *Developer* efforts or commitments to provide financial assistance to the Applicant by (1) reducing the Applicant's initial capital expense to purchase and install the System and/or (2) helping to maximize the lifetime value of the System for the Applicant. **You will also be required, in a subsequent question, to also upload a PDF document with this information in table format.**

Examples include, but are not limited to detailing (1) where and how the full grant value is being passed onto the Applicant, (2) the lifetime value of the System without the grant, (3) any value or savings passed onto the Applicant via depreciation or ITC (where applicable), and (4) any other direct means or discounts the Developer is using to reduce the Applicant's capital expense, helping maximize the System's lifetime value.

Choice Electric's budget proposal provides installation and materials at competitive and fair prices. The full grant value will be applied to the installation and materials of the system.

Detailed Full Project Budget - Supporting Documentation*

Upload (1) PDF document with (3) separate tables detailing the full project budget:

- Developer Commitments/Discounts
- Applicant Expenses (e.g. payment schedule)
- Applicant Funding Sources (e.g. grants, loans, operating budget dollars, bank loans, etc.)

A *fourth* lifetime cash flow table is strongly encouraged and should be broken down by year, for either (1) the length of the contract with Developer or (2) length of module warranty, detailing:

- Expected lifetime System savings
- Assumptions used to model System savings
- Other System financial metrics
- Where and how Solar for Schools grant value will be passed onto the Applicant
- Where and how any Developer Commitments/Discounts will be passed onto the Applicant

Shakopee Sweeny- System Costs & Energy.pdf

Developer Prevailing Wage Assurance*

As the Developer, describe how you will assure prevailing wage compliance, including with all subcontractors, as defined in Minn. Stat. 177.42, subd. 6; and adhere to the provisions of Minn. Stat. 177.43. Upload supporting documentation, such as highlighting this commitment in the contract with Applicant. Applicant responses from Step 1 pertaining to prevailing wage compliance are populated below for your reference.

Note: The Department will require the collection of prevailing wage reporting documentation during, and upon completion of, the project.

Shakopee Schools - 40 KW Solar - Sweeny.pdf Choice Electric will comply with prevailing wage requirements by assuring that services provided by Choice Electric or its subcontractors, subject to prevailing wage requirements, are paid at prevailing wage. Choice will maintain and provide Customer MN Department of Labor and Industry Certified Payroll Forms for services performed subject to prevailing wage for itself and its subcontractors. Any subcontractor agreements for services provided to Choice will also require the subcontractor to provide services in conformance with prevailing wage. The subcontractor will be required to provide Choice with MN Department of Labor and Industry Certified Payroll Forms. All documentation will be provided to the Applicant.

Prevailing Wage Compliance

Describe the prevailing wage compliance in the procurement process, as defined in Minn. Stat. 177.42, subd. 6, and adhere to the provisions of Section 177.43, ensuring that the Developer, including all subcontractors, will comply with it.

Note: In Step 2: Full Grant Application, the Developer must also describe a plan to assure prevailing wage compliance.

As required by the Solar for Schools Program, the District will require our selected developer to provide labor and subcontracted labor that conforms with prevailing wage requirements, and will require them to provide required documentation to demonstrate so. We will also require that they provide language in the contract affirming the foregoing.

File Attachment Summary

Applicant File Uploads

- Sweeney Production Calcs.pdf
- MPPA Hometown Solar_Energy Education_Shakopee.pdf
- Shakopee Sweeny- System Costs & Energy.pdf
- Shakopee Schools - 40 KW Solar - Sweeny.pdf



RESULTS

65,014 kWh/Year*

System output may range from 61,711 to 66,496 kWh per year near this location

Caution: Photovoltaic system performance predictions calculated by PVWatts[®] include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts[®] inputs. For example, PV modules with better performance are not differentiated within PVWatts[®] from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at <https://sam.nrel.gov>) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report

Disclaimer: The PVWatts[®] Model ("Model") is provided by the National Renewable Energy Laboratory ("NREL"), which is operated by the Alliance for Sustainable Energy, LLC ("Alliance") for the U.S. Department Of Energy ("DOE") and may be used for any purpose whatsoever.

The names DOE/NREL/ALLIANCE shall not be used in any representation, advertising, publicity or other manner whatsoever to endorse or promote any entity that adopts or uses the Model. DOE/NREL/ALLIANCE shall not provide any support, consulting, training or assistance of any kind with regard to the use of the Model or any updates, revisions or new versions of the Model.

YOU AGREE TO INDEMNIFY DOE/NREL/ALLIANCE, AND ITS AFFILIATES, OFFICERS, AGENTS, AND EMPLOYEES AGAINST ANY CLAIM OR DEMAND, INCLUDING REASONABLE ATTORNEYS' FEES, RELATED TO YOUR USE, RELIANCE, OR ADOPTION OF THE MODEL FOR ANY PURPOSE WHATSOEVER. THE MODEL IS PROVIDED BY DOE/NREL/ALLIANCE "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. IN NO EVENT SHALL DOE/NREL/ALLIANCE BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO CLAIMS ASSOCIATED WITH THE LOSS OF DATA OR PROFITS, WHICH MAY RESULT FROM ANY ACTION IN CONTRACT, NEGLIGENCE OR OTHER TORTIOUS CLAIM THAT ARISES OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE MODEL.

The energy output range is based on analysis of 30 years of historical weather data, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)
January	2.79	3,637
February	3.61	4,342
March	4.79	6,079
April	5.46	6,344
May	6.01	7,002
June	6.47	7,167
July	6.79	7,402
August	5.93	6,591
September	5.18	5,674
October	3.69	4,460
November	2.80	3,400
December	2.18	2,915
Annual	4.64	65,013

Location and Station Identification

Requested Location	1001 Adams St S, Shakopee, MN 55379
Weather Data Source	Lat, Lng: 44.77, -93.54 1.2 mi
Latitude	44.77° N
Longitude	93.54° W

PV System Specifications

DC System Size	51.87 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tilt	20°
Array Azimuth	180°
System Losses	18.37%
Inverter Efficiency	96%
DC to AC Size Ratio	1.2

Performance Metrics

Capacity Factor	14.3%
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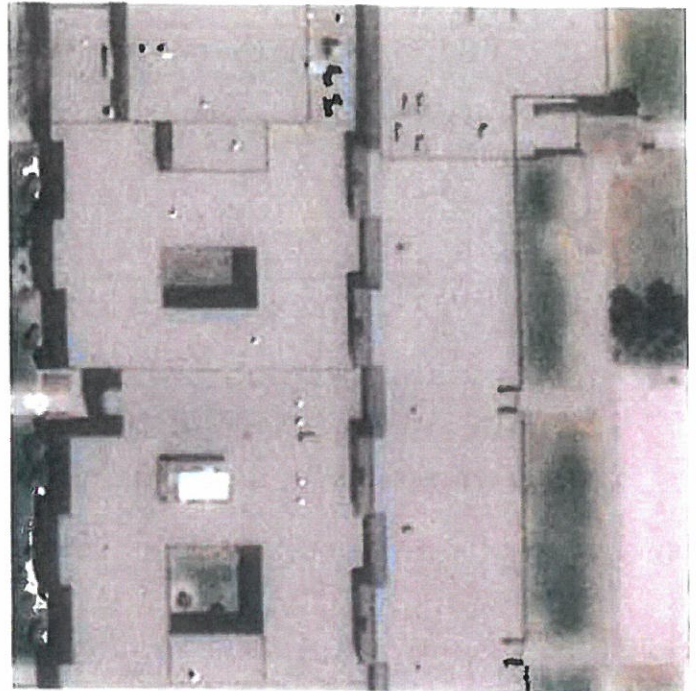
Solar Suitability Report

Latitude: 44.787496 Longitude: -93.539911

mn.gov/solarapp

Fri Apr 22, 2022

ISD 720 Shakopee Public Schools - Sweeney Elementary
1001 Adams St S Shakopee MN

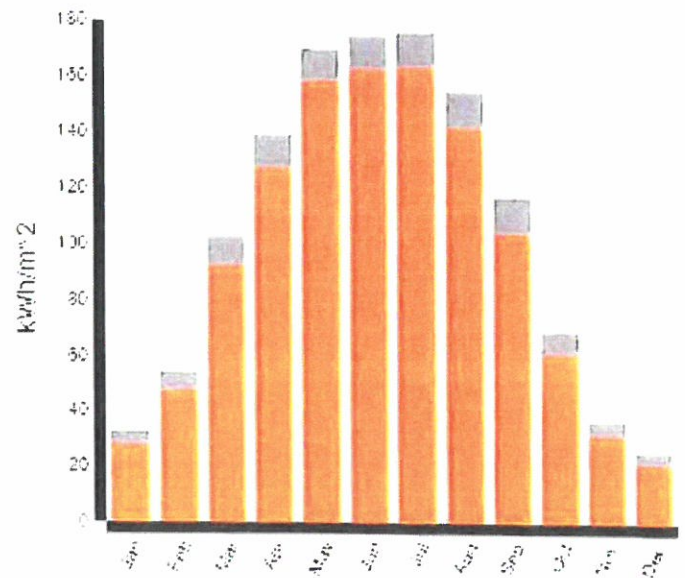


This site is **Optimal**. It would need a **4.82 kW** system to generate **50%** of average household use. This system would cost approximately **\$18,072**. System payback is **13.1 years** after tax credit.

Utility Service Provider:
Shakopee Public Utilities
255 Sarazin St., P.O. Box 470
Shakopee, MN 55379
(952) 445-1988

Site Details:
Total Annual Insolation: 1160.66 kWh/m²
Avg Insolation per Day: 3.18 kWh/m²
Source Data: Spring and Fall 2011

Amount Actual Sun



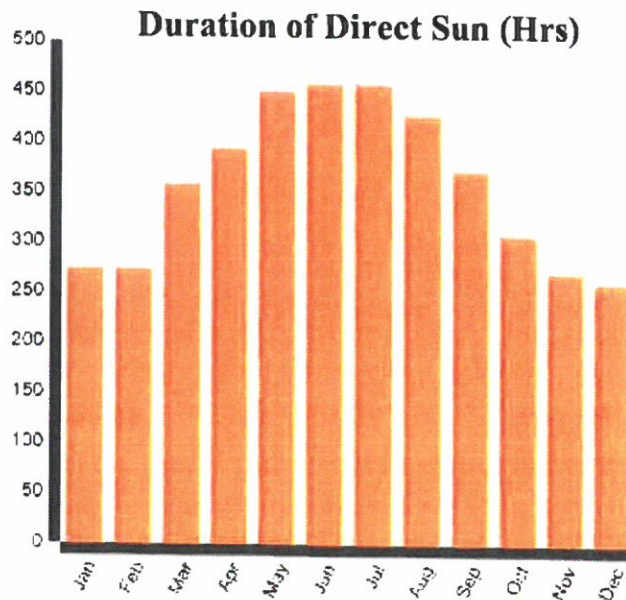
Solar Calculator

User Input	Value	Tips and Notes
Average utility use (per month)	800 kWh	The average residential household uses 800 kWh/month. If you know your monthly usage, fill it in here.
Cost / kWh	\$0.12/kWh	Minnesota's average residential cost of electricity is \$0.12/kWh. If you know your cost of electricity enter it here.
Percent of electricity provided by solar	50%	Experiment with different percentages here to see how system cost varies. Think about how energy efficiency improvements bring down the cost of your solar system.

Outputs	Value	Tips and Notes
Size of system needed	4.82 kW	Result is based on values provided for monthly electricity use and desired percentage covered by solar. It also includes a derate of 0.87. A factor accounting for conversion of the array's DC nameplate capacity to the system's AC power rating at Standard Test Condition.
System cost estimate	\$18,072	Result is based on an average 2020 Minnesota residential system cost of \$3,750 per kW. Costs will vary depending on the specifics of your system.
Payback without incentives	17.76 years	Result assumes that electricity costs will rise 3.5% each year over 25 years.
Payback with Tax Credit	13.14 years	Your system may be eligible for a federal tax credit. This result shows the payback of your system with the 26% tax credit applied.

Month	Actual % Sun**	Total kWh/m2	Duration (Hrs)
January	87%	28.60	275.0
February	88%	47.97	275.7
March	90%	92.65	359.6
April	92%	127.75	395.5
May	94%	158.98	452.7
June	93%	163.19	460.0
July	93%	163.81	460.5
August	92%	142.07	429.2
September	89%	104.54	374.1
October	89%	61.29	309.6
November	87%	32.17	272.7
December	85%	22.18	262.9

**These percentages should be used as the monthly shading derate factors % on the Xcel Solar Rewards application



This service made possible by:

MINNESOTA COMMERCE
 DEPARTMENT
 ENERGY RESOURCES

Hometown Solar

Shakopee



Technology:

Solar Energy

Capacity:

5.6 kW

Solar Panels:

(16) SolarWorld 350W

Location:

Eagle Creek Elementary School

Hometown Solar Grant Program

In 2015, the Minnesota Municipal Power Agency (MMPA) launched its Hometown Solar Grant Program— an extension of MMPA’s Energy Education Program. The purpose of the grant program is to provide an educational asset to our member communities and to help teach local youth first-hand how sunlight is converted into electricity, as well as the unique characteristics of solar power.

Energy Education in the Classroom

To support learning opportunities in the classroom, real time and historical data from the Hometown Solar installation in Shakopee is available online via the SolarEdge dashboard. To access the information, please find login information below:

Login Page: <https://monitoring.solaredge.com/solaredge-web/p/login>

User Name: HometownSolar.Shakopee@mmpa.org

Password: MMPAShakopee5kW!

Public site link: <https://monitoringpublic.solaredge.com/solaredge-web/p/kiosk?guid=961e331e-760f-4f79-b488-b99c398a972a>

Information available to educators and students includes:

- Current Power Value (kW)
- Daily Energy Values (kWh)
- Historical Energy Values (Day/Week/Month/Year/Lifetime)
- Weather (Temp, Cloud Cover, Wind, Humidity, Sunrise/Sunset)
- High Level Environmental Benefits
- Charting and Analysis Reporting
- Individual Panel Review/Assessment

For more information on MMPA or Energy Education, please visit mmpa.org.

Hometown Solar

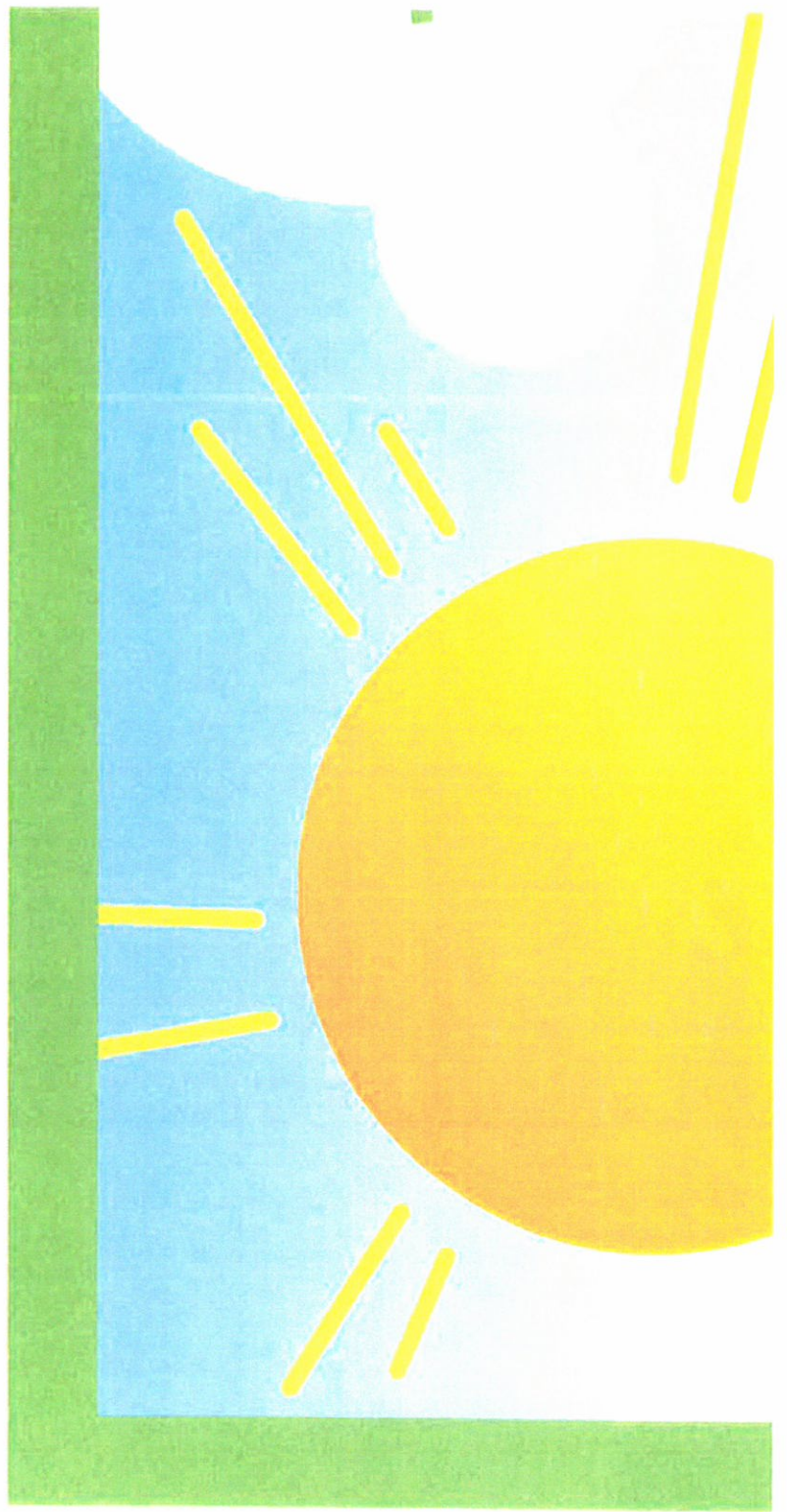
Lesson Plan Concepts

<p>Lesson Plan Concepts & Ideas</p>	<p>In an effort to support energy education in the classroom, this document outlines potential lesson plan concepts and ideas to encourage educators and students to learn more about the Hometown Solar installation in their community, as well as the unique characteristics of solar power.</p>
<p>How Hometown Solar Generates Electricity</p>	<p>Attached is a high level graphic that outlines how the Hometown Solar installation in your community generates electricity.</p> <p>Expected lessons learned:</p> <ul style="list-style-type: none"> • The sun produces solar energy • Solar panels convert the solar energy into electrical energy • Solar panels generate direct current (DC) electricity • An inverter converts electricity from DC to AC (alternating current) • Electricity produced is sent directly to the Hometown Solar grant recipient's facility to be used to power things such as lights, computers, and other electronic devices <p>Additional Resources:</p> <ul style="list-style-type: none"> • Attached graphic
<p>How Solar Panels Work</p>	<p>Solar panels harness heat and light from the sun and convert solar energy into electrical energy. The Hometown Solar panels are photovoltaic (PV) panels.</p> <p>Expected lessons learned:</p> <ul style="list-style-type: none"> • PV panels convert sunlight into electrical energy • PV panels are made of semiconductor materials • Photons carry solar energy and when absorbed by the semiconductor material in the panel they free the electrons and create an electrical charge - generating electricity <p>Additional Resources:</p> <ul style="list-style-type: none"> • https://www.nrel.gov/workingwithus/re-solar.html

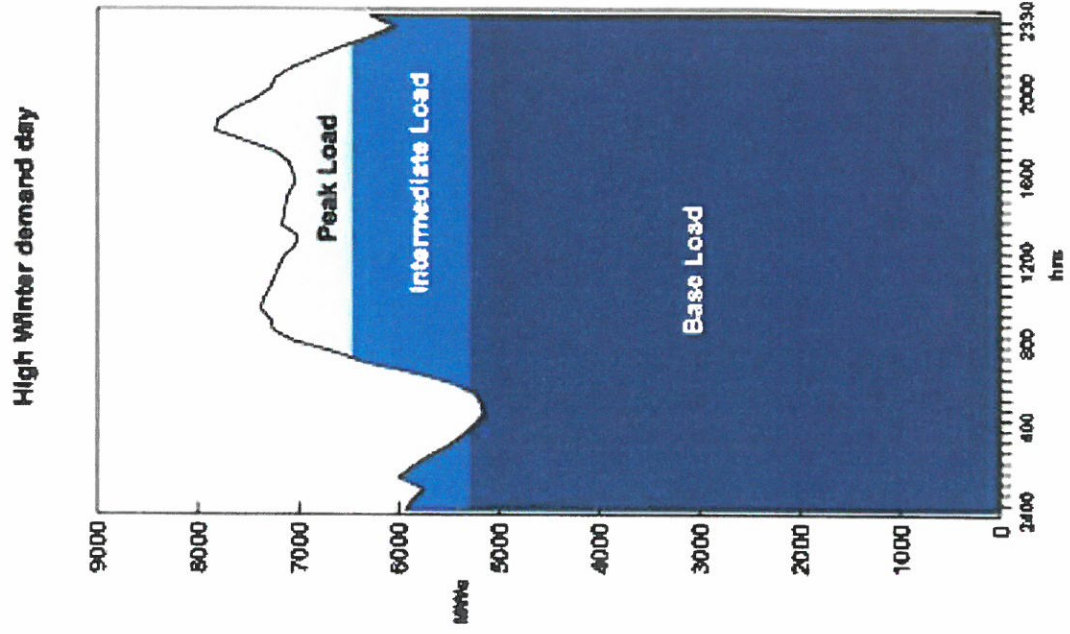
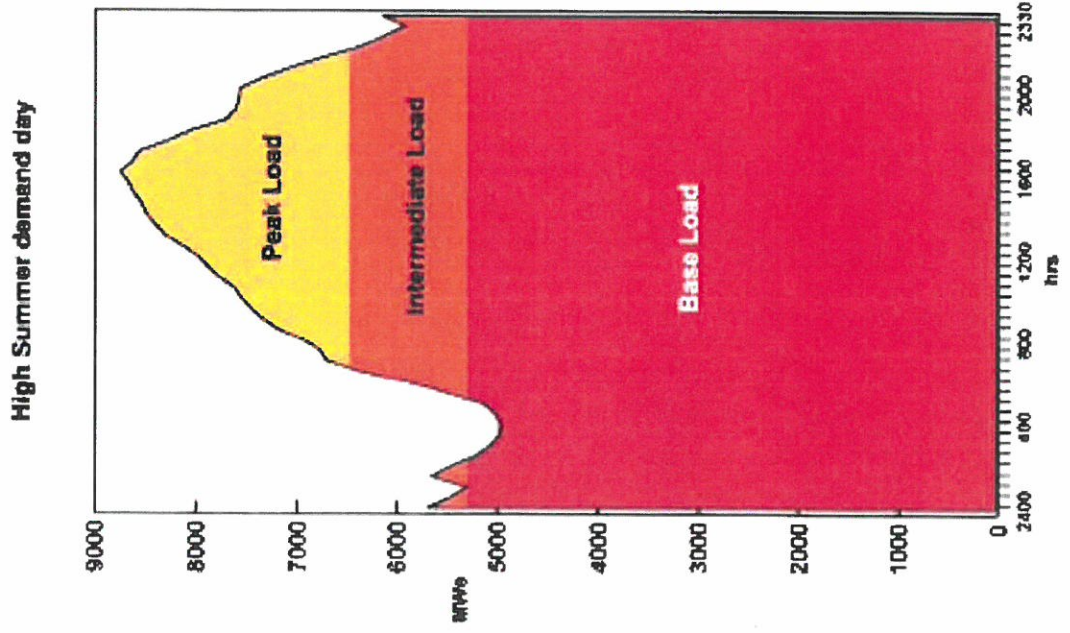
<p>How Solar Panels Work (Cont.)</p>	<p>Additional Resources:</p> <ul style="list-style-type: none"> • https://www.nrel.gov/workingwithus/re-photovoltaics.html • https://www.eia.gov/KIDS/energy.cfm?page=solar_home-basics • http://energy.gov/eere/energybasics/articles/solar-energy-technology-basics • http://www.eia.gov/energyexplained/index.cfm?page=solar_photovoltaics
<p>Variables that Affect Solar Energy Production</p>	<p>Many factors impact solar energy production. Challenge students to investigate the following variables and to draw conclusions about each:</p> <ul style="list-style-type: none"> • Geographic location • Time of day • Season/Time of Year • Local landscape (i.e. shade) • Weather (i.e. sunlight exposure) <p>Educators can use Hometown Solar data to better understand how each of the factors listed above affect solar energy production.</p> <p>Expected lessons learned:</p> <ul style="list-style-type: none"> • For best solar energy production values in Minnesota, panels should be south facing • Highest production yields are expected during the summer months when the sun's angle is most direct • The best time of day for energy production is when the sun is directly over the panels (i.e. noon/midday) • Season and position of the sun will impact production values, as the angle of the sun changes • Shading from various factors (i.e. trees, buildings, etc.) impact energy production values <p>Additional Resources:</p> <ul style="list-style-type: none"> • http://dnr.state.mn.us/energysmart/solar/howitworks.html
<p>Renewable Energy</p>	<p>Renewable energy is energy that comes from sources that can naturally replenish. Common examples of renewable energy sources include: solar, wind, hydro, biomass and geothermal.</p> <p>Suggested items to discuss:</p> <ul style="list-style-type: none"> • What is renewable energy?

<p>Renewable Energy (Cont.)</p>	<p>Suggested items to discuss:</p> <ul style="list-style-type: none"> • What percentage of the US power supply comes from renewables? • What is the Minnesota Renewable Energy Standard? • What are the benefits and disadvantages of renewable energy <ul style="list-style-type: none"> - Renewable energy is often an intermittent resource; therefore, to meet energy demand requirements energy must come from additional conventional or non-renewable sources (i.e. natural gas, nuclear, coal) <p>Additional Resources:</p> <ul style="list-style-type: none"> • https://www.eia.gov/kids/energy.cfm?page=renewable_home-basics • https://energy.gov/science-innovation/clean-energy • https://mn.gov/portal/natural-resources/renewable-energy/ • https://www.eia.gov/energyexplained/index.cfm?page=renewable_home • http://www.eia.gov/tools/faqs/faq.cfm?id=92&t=4
<p>Energy Demand and Solar Energy</p>	<p>The demand for energy changes throughout the day. Attached to this document is a graphic that outlines a "typical 24-hour load curve for summer and winter months."</p> <p>Expected lessons learned:</p> <ul style="list-style-type: none"> • During the summer, energy demand increases throughout the day (~starting between 6:00-7:00 a.m. and peaks in the late afternoon) • During the winter months there is a bimodal peak in energy demand- once in the morning and later in the afternoon/early evening. This often reflects the differences between heating and cooling needs. • Peak energy production for solar power is around mid-day and supports meeting energy demand <p>Additional Resources:</p> <ul style="list-style-type: none"> • Attachment - Load Curves for Typical Electricity Grid • http://www.eia.gov/todayinenergy/detail.cfm?id=830

<p>Power vs. Energy</p>	<p>Understanding the difference between power and energy can be challenging. Below is a high level outline:</p> <p>Power: the available power, i.e. Watts (Watts = volts * amps) that can be produced by a power generator (or the rate at which work is performed). The power value for the Hometown Solar installation in your community is:</p> <table border="1" data-bbox="641 604 1534 766"> <thead> <tr> <th>No. of Panels</th> <th>No. of Watts/ Panel</th> <th>Total Power - Watts (W)</th> <th>Total Power - kiloWatts (kW)</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>350</td> <td>5,600</td> <td>5.6</td> </tr> </tbody> </table> <p>Energy: the amount of energy (Watt-hour or Wh) produced during a certain period of time.</p> <p>Energy = Power * Time</p> <ul style="list-style-type: none"> i.e. kWh = kW * h <p>Additional Resources:</p> <ul style="list-style-type: none"> https://www.eia.gov/tools/faqs/faq.cfm?id=101&t=3 http://energy.gov/eere/energybasics/articles/glossary-energy-related-terms#P 	No. of Panels	No. of Watts/ Panel	Total Power - Watts (W)	Total Power - kiloWatts (kW)	16	350	5,600	5.6
No. of Panels	No. of Watts/ Panel	Total Power - Watts (W)	Total Power - kiloWatts (kW)						
16	350	5,600	5.6						
<p>Existing Lesson Plans on Solar Energy</p>	<ul style="list-style-type: none"> https://www.nrel.gov/workingwithus/energy-education.html https://energy.gov/eere/education/teach-and-learn 								
<p>Additional Attached Resources</p>	<ul style="list-style-type: none"> How Hometown Solar Generates Electricity SolarWorld 350W, Technical Data Sheet SolarEdge Dashboard_User Guide 								

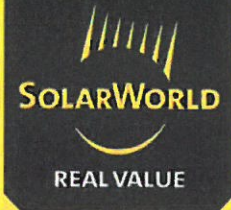


Load curves for Typical electricity grid

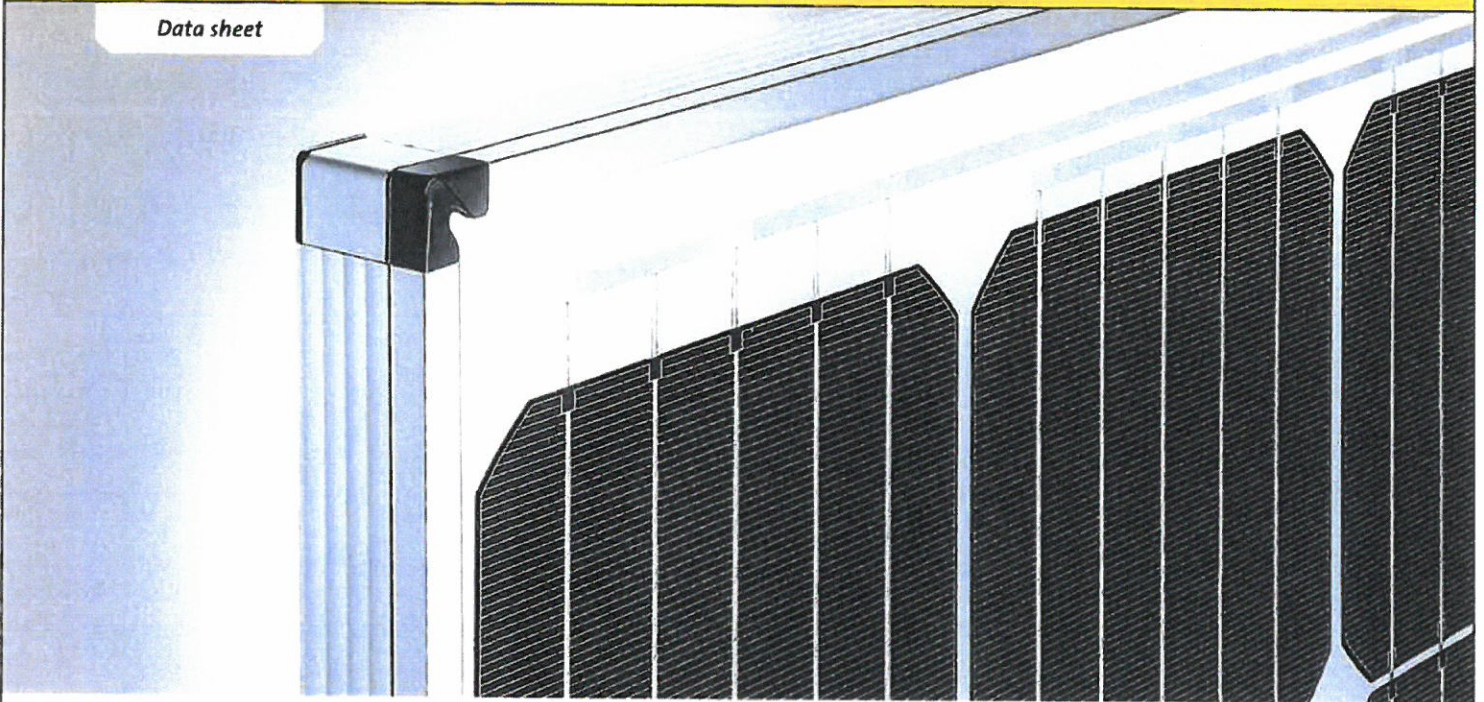


Sunmodule[®]

SW 340 - 350 XL MONO



Data sheet



QUALITY BY SOLARWORLD

SolarWorld's foundation is built on more than 40 years of ongoing innovation, continuous optimization and technology expertise. All production steps from silicon to module are established at our production sites ensuring the highest possible quality for our customers. Our modules come in a variety of different sizes and power, making them suitable for all global applications – from residential solar systems to large-scale power plants.

- Lower BOS costs than for 60-cell modules – faster return on investment
- Tested in extreme weather conditions – hail-impact tested and resistant to salt spray, frost, ammonia, dust and sand
- Proven guarantee against hotspots and PID-free to IEC 62804-1
- SolarWorld Efficell™ PERC cell technology for the highest possible energy yields
- Patented corner design with integrated drainage for optimized self-cleaning
- High-transmissive glass with anti-reflective coating
- Long-term safety and guaranteed top performance – 25-year linear performance warranty; 20-year product warranty



Sunmodule[®]

SW 340 - 350 XL MONO



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 340	SW 345	SW 350
Maximum power	P_{max}	340 Wp	345 Wp	350 Wp
Open circuit voltage	V_{oc}	47.0 V	47.2 V	47.3 V
Maximum power point voltage	V_{mpp}	37.1 V	37.5 V	37.8 V
Short circuit current	I_{sc}	9.81 A	9.82 A	9.82 A
Maximum power point current	I_{mpp}	9.26 A	9.28 A	9.29 A
Module efficiency	η_m	17.04 %	17.29 %	17.54 %

Measuring tolerance (P_{max}) traceable to TUV Rheinland: +/- 2% (TUV Power controlled, ID 0000039351)

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 340	SW 345	SW 350
Maximum power	P_{max}	257.3 Wp	260.4 Wp	262.2 Wp
Open circuit voltage	V_{oc}	43.6 V	43.6 V	43.7 V
Maximum power point voltage	V_{mpp}	34.4 V	34.7 V	34.9 V
Short circuit current	I_{sc}	7.97 A	7.98 A	7.98 A
Maximum power point current	I_{mpp}	7.49 A	7.50 A	7.56 A

Minor reduction in efficiency under partial load conditions at 25 °C: at 200 W/m², 97% (+/-3%) of the STC efficiency (1000 W/m²) is achieved.

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Power sorting	-0 Wp / +5 Wp
Maximum system voltage SC II / NEC	1000 / 1500 V
Maximum reverse current	25 A
Number of bypass diodes	3
Operating temperature	-40 to +85 °C
Maximum design loads (Two rail system)*	113 psf downward, 64 psf upward

*Please refer to the Sunmodule installation instructions for the details associated with these load cases

COMPONENT MATERIALS

Cells per module	72
Cell type	Monocrystalline PERC
Cell dimensions	6 in x 6 in (156 mm x 156 mm)
Front	Tempered safety glass with ARC (EN 12150)
Back	Multi-layer polymer backsheet, white
Frame	Clear anodized aluminum
J-Box	IP65
Connector	PV wire (UL4703) with Amphenol UTX connectors
Module fire performance	(UL 1703) Type 1

DIMENSIONS / WEIGHT

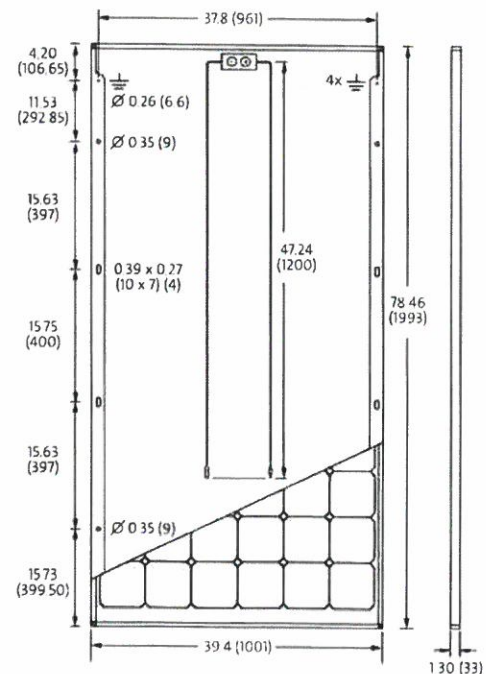
Length	78.46 in (1993 mm)
Width	39.40 in (1001 mm)
Height	1.30 in (33 mm)
Weight	47.6 lb (21.6 kg)

THERMAL CHARACTERISTICS

NOCT	46 °C
TC I_{sc}	0.03 % / °C
TC V_{oc}	-0.29 % / °C
TC P_{mpp}	-0.42 % / °C

ORDERING INFORMATION

Order number	Description
82000664	Sunmodule Plus SW 340 XL mono
82000561	Sunmodule Plus SW 345 XL mono
82000563	Sunmodule Plus SW 350 XL mono

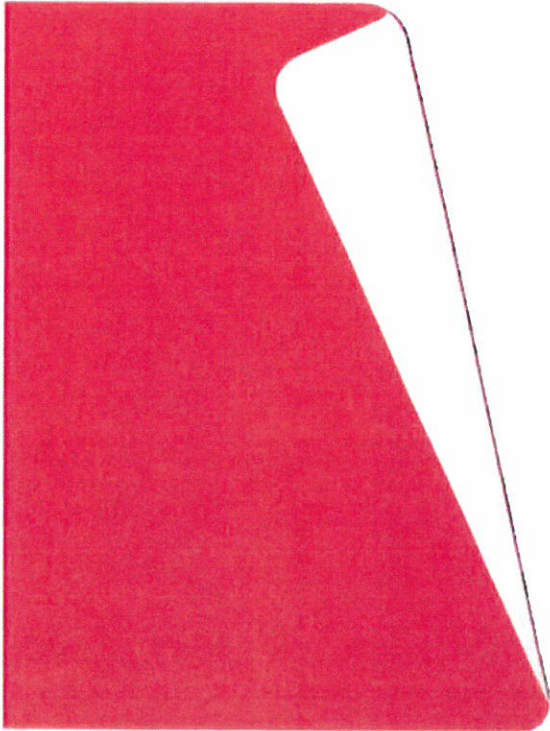


All units provided are imperial. SI units provided in parentheses

CERTIFICATES AND WARRANTIES







Certificates	IEC 61730	IEC 61215	UL 1703
	IEC 62716	IEC 60068-2-68	IEC 61701
Warranties*	Product Warranty	20 years	
	Linear Performance Guarantee	25 years	

*Supplemental warranty coverage available through SolarWorld Assurance™ Warranty Protection Program – www.solarworld.com/assurance



Dashboard

solar**edge**

	Dashboard		Layout		Chart		Reports		Alerts		Admin
---------------------------------------------------------------------------------------	-----------	---------------------------------------------------------------------------------------	--------	---------------------------------------------------------------------------------------	-------	--------------------------------------------------------------------------------------	---------	-------------------------------------------------------------------------------------	--------	-------------------------------------------------------------------------------------	-------

Dashboard - Overview



Navigation

Overview

Power & Energy

Home Welcome User

Choose a site (insert at least 3 letters to search)

solarEdge

Site status: ✔

Site summary

Name: TestSite
Country: United Kingdom
Installed: 02/15/2012
Last updated: 01/28/2015 09:53
Peak power: 4 kWp
Address: London

Temperature: 15.0 °C
Cloud:
Feels like: 15.0 °C
Wind ESE: 3.6 km/h
Humidity: 55.0 %
Sunrise at 06:36
Sunset at 17:11

Weather:

Wednesday 12.37 °C 54% Cloudy
Thursday 14.25 °C 54% Cloudy

Current Power: 709.49 W
Energy today: 2.32 kWh
Energy this month: 406.85 kWh
Lifetime energy: 15.56 MWh
Lifetime revenue: 26,652.66 €

Power and Energy

Week: 01/01/2015 - 01/31/2015

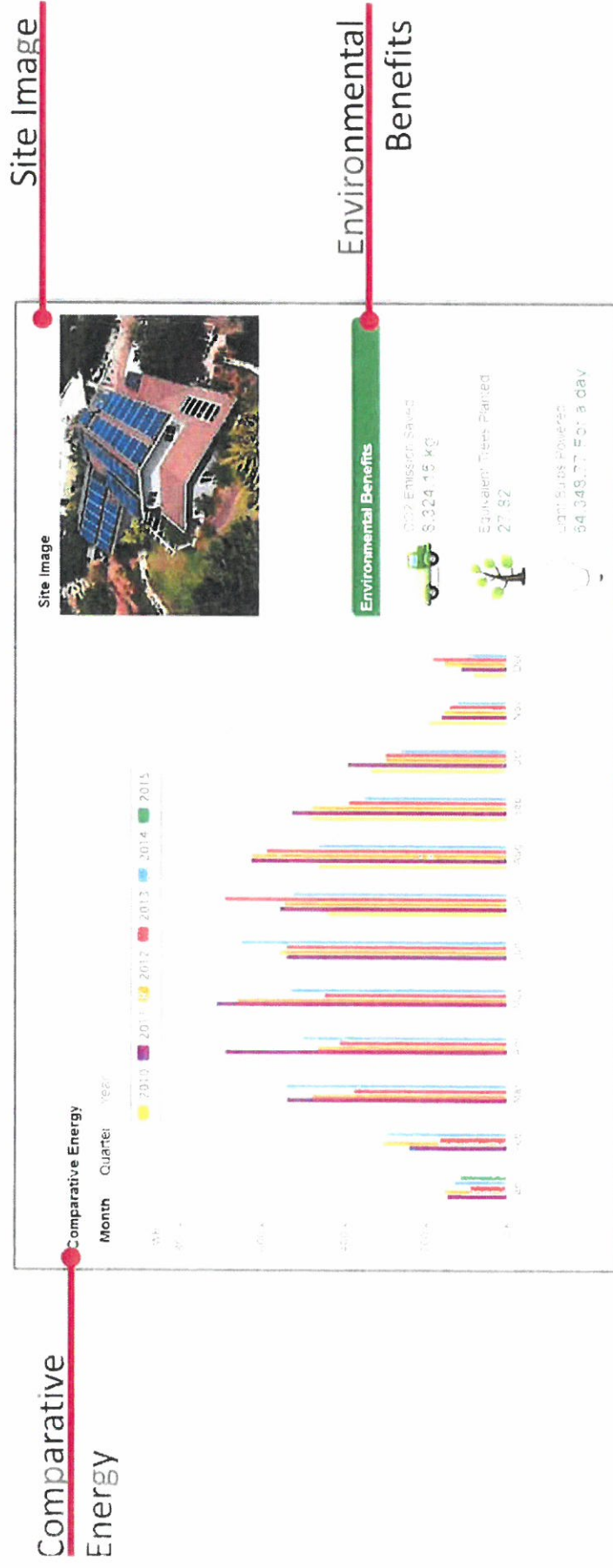
Month: Year

■ Consumption 325,864 kWh
■ Production 1,087,727 kWh
■ Self consumption: 192,277 kWh 17.68%

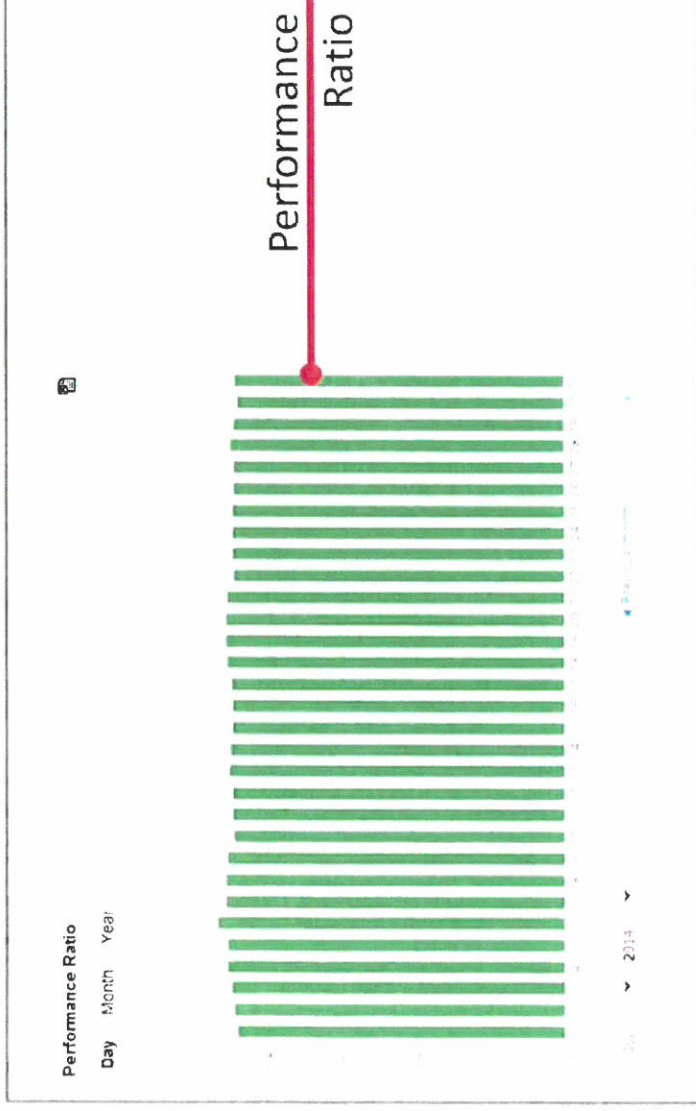
Jan 2015 Apply

Dashboard - Overview

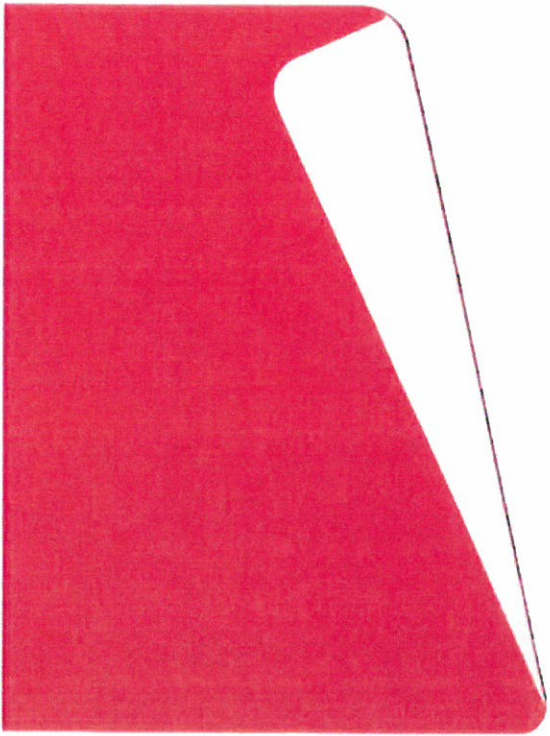
solar_{edge}



Dashboard - Overview









- This screen is available, when a Control & Communication Gateway is connected to supply the needed irradiance and temperature measurements



Layout

solar^{edge}

	Dashboard		Layout		Chart		Reports		Alerts		Admin
---------------------------------------------------------------------------------------	-----------	---------------------------------------------------------------------------------------	--------	---------------------------------------------------------------------------------------	-------	--------------------------------------------------------------------------------------	---------	-------------------------------------------------------------------------------------	--------	-------------------------------------------------------------------------------------	-------

Logical Layout



Energy display: **Daily** | Weekly | Monthly | Yearly | Total | **Toggle logical/physical Layout**

Show playback ▾

Installation

Solgal - Four Facet R

35.88 kWh

Inverter

10.67 kWh (1) | 9.56 kWh (2) | 14.82 kWh (3)

String

11.12 kWh (1.1) | 9.9 kWh (2.1) | 15.4 kWh (3.1)

Panel

482 Wh (1.1.1) | 453.5 Wh (2.1.1) | 725.25 Wh (3.1.1) | 628.5 Wh (1.1.2) | 453.75 Wh (2.1.2) | 718.75 Wh (3.1.2)

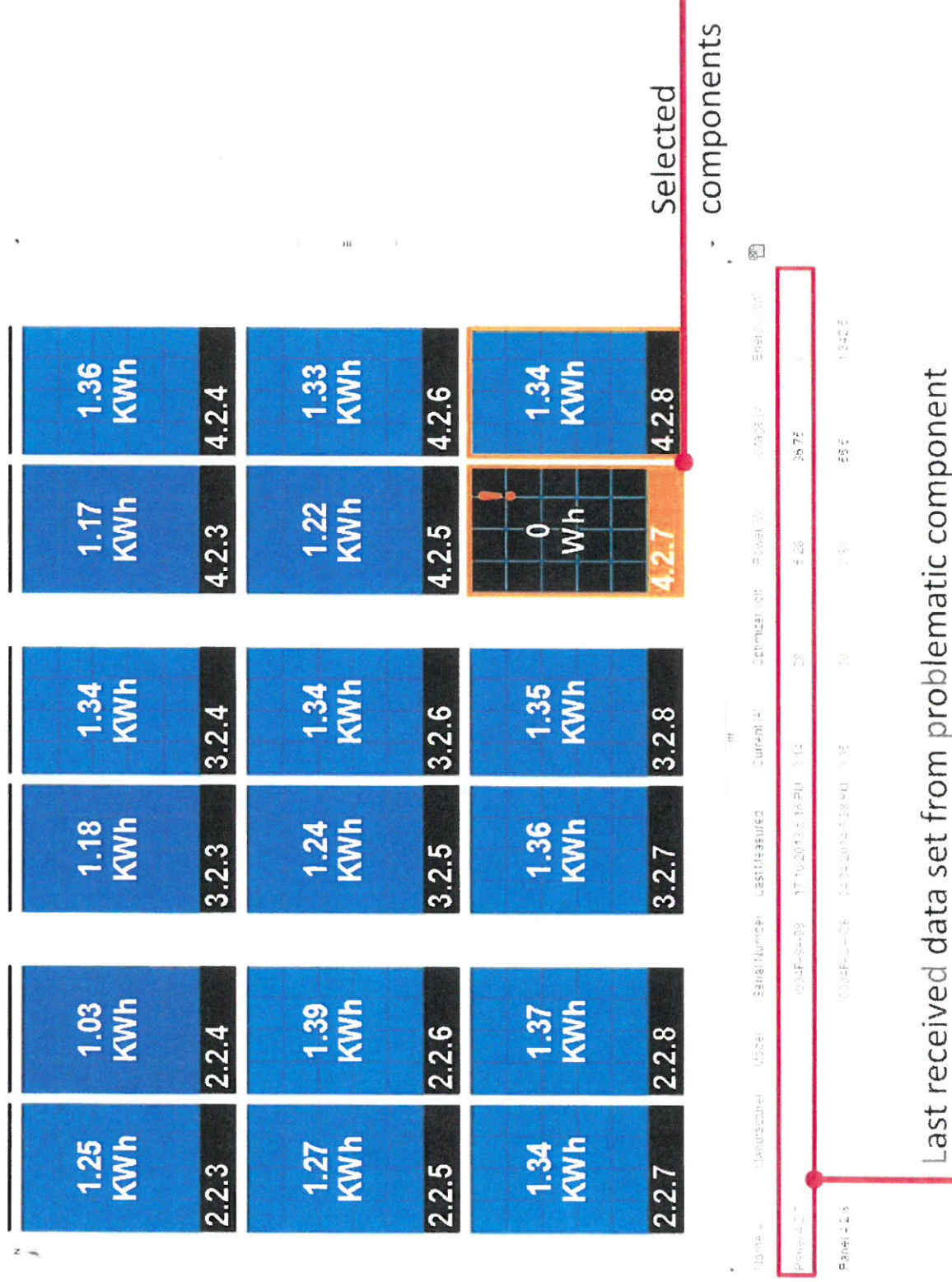
Details Table

Name	Manufacturer	Model	Serial Number	Last Measured	Current (A)	Optimizer Vol	Power (W)	Voltage (V)	Energy (Wh)
Panel 3-1.2			00103FDE-24	28/01/2015	4.18	17	112.73	27	727.25
Panel 3-1.3			0010404E-9E	28/01/2015	4.5	16.5	119.81	26.63	726.5

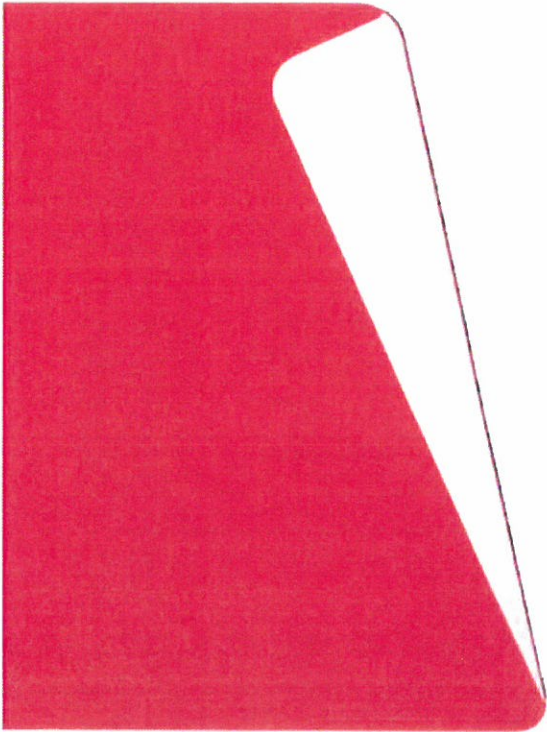
Click to expand/collapse

Navigator

Layout - Data Table









Last received data set from problematic component



Reports

solar**edge**

-  Dashboard
-  Layout
-  Chart
-  Reports
-  Alerts
-  Admin

- Generate status reports for a selected time period

Dashboard Layout Chart Reports Alerts Admin

Reports

Select Report Type

- Periodic AC Energy See Status

Select dates

From Date:

To Date:

Select Format

- Adobe PDF file
- HTML Format
- Microsoft Excel Office Format
- Microsoft Word Office Format

Status Report for Site Commercial 2

This Report was Generated on Feb 5, 2014 8:01 AM

Overview

Location: Abbeville, United States
 Peak Power: 50.0 kWp
 Installation Date: Dec 15, 2013

Aggregated Energy and Revenue

Period	AC Energy	Revenue
Today	35.82 KWh	\$54.08
This Month	603.08 KWh	\$910.64
This Year	6405.74 KWh	\$9,672.67
Since Installation	7731.31 KWh	\$11,674.27

Open Alerts

First Triggered	Last Triggered	Summary	Description	Severity
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Technical Note - Environmental Benefits Calculation

Introduction

The **Environmental Benefits** area in the monitoring portal main screen shows the accumulated impact that non-renewable energy producing methods would have had on the environment, if this energy would not have been produced by this PV site.

The following figure is an example of a 3.9 kWp system, installed in the United Kingdom on October, 2011. As of March 2016 this system produced approximately 14.4 MWh.

The next section is based on this example.



Environmental Benefits Value Description

The following values are presented for every PV system:

Value	Description	Formula and example
Co2 Emission Saved	Each kWh of electricity can be generated using fossil fuel which generates emission. The amount of emission generated in each country is different. The figures that are used to calculate the emission in each country are shown in the appendix below. The calculations are based on conversion factors from lifetime energy figures. The factors are taken from the US EPA site (http://www.epa.gov/cleanenergy/energy-resources/refs.html).	$\text{Co2 (kg)} = \text{kWh produced} \times \text{Co2 Factor (g/kWh)}$ In the example shown here: $14,420 \text{ kWh} \times 392 = 5652 \text{ kg}$.
Equivalent Trees Planted	Trees are absorbing Co2, thus reducing the CO2 environment pollution. Using clean energy is equivalent to planting new trees for reducing CO2 emission. The number of trees is calculated using a location dependent factor. The calculations are based on conversion factors from lifetime energy figures. The factors are taken from the US EPA site (http://www.epa.gov/cleanenergy/energy-resources/refs.html).	$\# \text{ of trees planted} = \text{kWh produced} \times \text{Trees factor}$ In the example shown here, $14,420 \text{ kWh} \times 0.00131 = 18.89 \text{ Trees planted}$.
Light Bulb Powered for a day	Assuming a 60W light bulb operates 5.5 hrs/day, the daily energy consumed by a single light bulb is 330wh.	$\text{Light bulbs for a day} = \text{kWh produced} / 330\text{wh}$, in the example shown here, $14,420\text{kWh} / 330 = 43696 \text{ bulbs per single day}$.

Co2 and Trees Planted Factors by Country

The table below contains the numbers currently used in the SolarEdge monitoring portal.

Country	Code	Currency	Co2 Factor	Trees planted factor
Afghanistan	AF	AFN	392	0.00131
Albania	AL	ALL	392	0.00131
Algeria	DZ	DZD	392	0.00131
American Samoa	AS	USD	392	0.00131
Andorra	AD	EUR	392	0.00131
Angola	AO	AOA	392	0.00131
Anguilla	AI	XCD	392	0.00131
Antigua and Barbuda	AG	XCD	392	0.00131
Argentina	AR	ARS	392	0.00131
Armenia	AM	AMD	392	0.00131
Aruba	AW	AWG	392	0.00131
Australia	AU	USD	392	0.00131
Austria	AT	EUR	392	0.00131
Azerbaijan	AZ	AZN	392	0.00131
Bahamas	BS	BSD	392	0.00131
Bahrain	BH	BHD	392	0.00131
Bangladesh	BD	BDT	392	0.00131
Barbados	BB	BBD	392	0.00131
Belarus	BY	BYR	392	0.00131
Belgium	BE	EUR	392	0.00131
Belize	BZ	BZD	392	0.00131
Benin	BJ	XOF	392	0.00131
Bermuda	BM	BMD	392	0.00131
Bhutan	BT	BTN	392	0.00131
Bolivia	BO	BOB	392	0.00131
Bosnia and Herzegovina	BA	BAM	392	0.00131
Botswana	BW	BWP	392	0.00131
Brazil	BR	BRL	392	0.00131
British Indian Ocean Territory	IO	USD	392	0.00131
British Virgin Islands	VG	USD	392	0.00131
Brunei Darussalam	BN	BND	392	0.00131
Bulgaria	BG	BGN	392	0.00131
Burkina Faso	BF	XOF	392	0.00131
Burundi	BI	BIF	392	0.00131
Cambodia	KH	KHR	392	0.00131
Cameroon	CM	XAF	392	0.00131
Canada	CA	CAD	392	0.00131
Cape Verde	CV	CVE	392	0.00131
Cayman Islands	KY	KYD	392	0.00131
Central African Republic	CF	XAF	392	0.00131
Chad	TD	XAF	392	0.00131
Chile	CL	CLP	392	0.00131
China	CN	EUR	392	0.00131
Christmas Island	CX	AUD	392	0.00131

Country	Code	Currency	Co2 Factor	Trees planted factor
Colombia	CO	COP	392	0.00131
Comoros	KM	KMF	392	0.00131
Congo (Brazzaville)	CG	XAF	392	0.00131
Congo, Democratic Republic of the	CD	CDF	392	0.00131
Cook Islands	CK	NZD	392	0.00131
Costa Rica	CR	CRC	392	0.00131
Côte d'Ivoire	CI	XOF	392	0.00131
Croatia	HR	HRK	392	0.00131
Cuba	CU	CUP	392	0.00131
Cyprus	CY	EUR	392	0.00131
Czech Republic	CZ	CZK	392	0.00131
Denmark	DK	DKK	392	0.00131
Djibouti	DJ	DJF	392	0.00131
Dominica	DM	XCD	392	0.00131
Dominican Republic	DO	DOP	392	0.00131
Ecuador	EC	USD	392	0.00131
Egypt	EG	EGP	392	0.00131
El Salvador	SV	SVC	392	0.00131
Equatorial Guinea	GQ	XAF	392	0.00131
Eritrea	ER	ERN	392	0.00131
Estonia	EE	EEK	392	0.00131
Ethiopia	ET	ETB	392	0.00131
Falkland Islands (Malvinas)	FK	FKP	392	0.00131
Faroe Islands	FO	DKK	392	0.00131
Fiji	FJ	FJD	392	0.00131
Finland	FI	EUR	392	0.00131
France	FR	EUR	70	0.00023
French Guiana	GF	EUR	392	0.00131
French Polynesia	PF	XPF	392	0.00131
French Southern Territories	TF	EUR	392	0.00131
Gabon	GA	XAF	392	0.00131
Gambia	GM	GMD	392	0.00131
Georgia	GE	GEL	392	0.00131
Germany	DE	EUR	392	0.00131
Ghana	GH	GHS	392	0.00131
Gibraltar	GI	GIP	392	0.00131
Greece	GR	EUR	392	0.00131
Greenland	GL	DKK	392	0.00131
Grenada	GD	XCD	392	0.00131
Guadeloupe	GP	EUR	392	0.00131
Guam	GU	USD	392	0.00131
Guatemala	GT	GTQ	392	0.00131
Guernsey	GG	GBP	392	0.00131
Guinea	GN	GNF	392	0.00131
Guinea-Bissau	GW	XOF	392	0.00131
Guyana	GY	GYD	392	0.00131
Hong Kong	HK	HKD	392	0.00131
India	IN	INR	392	0.00131
Indonesia	ID	IDR	392	0.00131
Israel	IL	ILS	392	0.00131
Italy	IT	EUR	392	0.00131
Jamaica	JM	JMD	392	0.00131
Japan	JP	JPY	392	0.00131
Jordan	JO	JOD	392	0.00131
Kazakhstan	KZ	KZT	392	0.00131
Kenya	KE	KESh	392	0.00131
Korea, Republic of	KR	KRW	392	0.00131
Kuwait	KW	KWD	392	0.00131
Latvia	LV	LVL	392	0.00131
Lebanon	LB	LBP	392	0.00131
Lesotho	LS	LSL	392	0.00131
Lithuania	LT	LTL	392	0.00131
Luxembourg	LU	EUR	392	0.00131
Macao	MO	MOP	392	0.00131
Madagascar	MG	MGSh	392	0.00131
Malawi	MW	MWSh	392	0.00131
Malaysia	MY	MYR	392	0.00131
Maldives	MD	MDSh	392	0.00131
Mali	ML	MLF	392	0.00131
Malta	MT	EUR	392	0.00131
Martinique	MQ	EUR	392	0.00131
Mauritania	MR	MRD	392	0.00131
Mauritius	MU	MUR	392	0.00131
Mexico	MX	MXN	392	0.00131
Moldova	MD	MDL	392	0.00131
Monaco	MC	EUR	392	0.00131
Montenegro	ME	EUR	392	0.00131
Morocco	MA	MAD	392	0.00131
Mozambique	MZ	MZM	392	0.00131
Nepal	NP	NPR	392	0.00131
Netherlands	NL	EUR	392	0.00131
New Caledonia	NC	CFP	392	0.00131
New Zealand	NZ	NZD	392	0.00131
Nicaragua	NI	NIC	392	0.00131
Niger	NE	NGN	392	0.00131
Nigeria	NG	NGN	392	0.00131
North Macedonia	MK	MKD	392	0.00131
Norway	NO	NOK	392	0.00131
Oman	OM	OMR	392	0.00131
Pakistan	PK	PKR	392	0.00131
Panama	PA	PAB	392	0.00131
Papua New Guinea	PG	PGK	392	0.00131
Paraguay	PY	PYG	392	0.00131
Peru	PE	PEN	392	0.00131
Philippines	PH	PHP	392	0.00131
Pitcairn Islands	PN	NZD	392	0.00131
Poland	PL	PLN	392	0.00131
Portugal	PT	EUR	392	0.00131
Romania	RO	RON	392	0.00131
Russia	RU	RUB	392	0.00131
Rwanda	RW	RWF	392	0.00131
Saudi Arabia	SA	SAR	392	0.00131
Senegal	SN	CFA	392	0.00131
Seychelles	SC	SCR	392	0.00131
Singapore	SG	S\$	392	0.00131
Slovakia	SK	SKK	392	0.00131
Slovenia	SI	EUR	392	0.00131
South Africa	ZA	ZAR	392	0.00131
South Korea	KR	KRW	392	0.00131
Spain	ES	EUR	392	0.00131
Sri Lanka	LK	LKR	392	0.00131
St. Helena	SH	GBP	392	0.00131
St. Kitts and Nevis	KN	XCD	392	0.00131
St. Lucia	LC	XCD	392	0.00131
St. Vincent and the Grenadines	VC	XCD	392	0.00131
Sudan	SD	SDG	392	0.00131
Switzerland	CH	CHF	392	0.00131
Taiwan	TW	TWD	392	0.00131
Tanzania	TZ	TZSh	392	0.00131
Togo	TG	CFA	392	0.00131
Tonga	TO	TOP	392	0.00131
Turkey	TR	TRY	392	0.00131
Turkmenistan	TM	TMT	392	0.00131
Turks and Caicos Islands	TC	USD	392	0.00131
Uganda	UG	UGSh	392	0.00131
Ukraine	UA	UAH	392	0.00131
United Arab Emirates	AE	AED	392	0.00131
United Kingdom	GB	GBP	392	0.00131
United States	US	USD	392	0.00131
Uruguay	UY	UYU	392	0.00131
Uzbekistan	UZ	UZS	392	0.00131
Venezuela	VE	VEB	392	0.00131
Vietnam	VN	VND	392	0.00131
Virgin Islands, British	VG	USD	392	0.00131
Virgin Islands, U.S.	VI	USD	392	0.00131
Yemen	YE	YER	392	0.00131
Zambia	ZM	ZMW	392	0.00131
Zimbabwe	ZW	ZWL	392	0.00131

Country	Code	Currency	Co2 Factor	Trees planted factor
Honduras	HN	HNL	392	0.00131
Hong Kong, Special Administrative Region of China	HK	HKD	392	0.00131
Hungary	HU	HUF	392	0.00131
Iceland	IS	ISK	392	0.00131
India	IN	INR	392	0.00131
Indonesia	ID	IDR	392	0.00131
Iran, Islamic Republic of	IR	IRR	392	0.00131
Iraq	IQ	IQD	392	0.00131
Ireland	IE	EUR	392	0.00131
Isle of Man	IM	GBP	392	0.00131
Israel	IL	ILS	392	0.00131
Italy	IT	EUR	392	0.00131
Jamaica	JM	JMD	392	0.00131
Japan	JP	USD	450	0.0015
Jersey	JE	GBP	392	0.00131
Jordan	JO	JOD	392	0.00131
Kazakhstan	KZ	KZT	392	0.00131
Kenya	KE	KES	392	0.00131
Kiribati	KI	AUD	392	0.00131
Korea, Democratic People's Republic of	KP	USD	392	0.00131
Korea, Republic of	KR	KRW	392	0.00131
Kuwait	KW	KWD	392	0.00131
Kyrgyzstan	KG	KGS	392	0.00131
Lao PDR	LA	LAK	392	0.00131
Latvia	LV	LVL	392	0.00131
Lebanon	LB	LBP	392	0.00131
Lesotho	LS	LSL	392	0.00131
Liberia	LR	LRD	392	0.00131
Libya	LY	LYD	392	0.00131
Liechtenstein	LI	CHF	392	0.00131
Lithuania	LT	LTL	392	0.00131
Luxembourg	LU	EUR	392	0.00131
Macao, Special Administrative Region of China	MO	MOP	392	0.00131
Macedonia, Republic of	MK	MKD	392	0.00131
Madagascar	MG	MGA	392	0.00131
Malawi	MW	MWK	392	0.00131
Malaysia	MY	MYR	392	0.00131
Maldives	MV	MVR	392	0.00131
Mali	ML	XOF	392	0.00131
Malta	MT	EUR	392	0.00131
Marshall Islands	MH	USD	392	0.00131
Martinique	MQ	EUR	392	0.00131
Mauritania	MR	MRO	392	0.00131
Mauritius	MU	MUR	392	0.00131
Mayotte	YT	EUR	392	0.00131
Mexico	MX	MXN	392	0.00131
Micronesia, Federated States of	FM	USD	392	0.00131

Country	Code	Currency	Co2 Factor	Trees planted factor
Monaco	MC	EUR	392	0.00131
Mongolia	MN	MNT	392	0.00131
Montenegro	ME	EUR	392	0.00131
Montserrat	MS	XCD	392	0.00131
Morocco	MA	MAD	392	0.00131
Mozambique	MZ	MZN	392	0.00131
Myanmar	MM	MMK	392	0.00131
Namibia	NA	NAD	392	0.00131
Nauru	NR	AUD	392	0.00131
Nepal	NP	NPR	392	0.00131
Netherlands	NL	EUR	392	0.00131
Netherlands Antilles	AN	ANG	392	0.00131
New Caledonia	NC	XPF	392	0.00131
New Zealand	NZ	NZD	392	0.00131
Nicaragua	NI	NIO	392	0.00131
Niger	NE	XOF	392	0.00131
Nigeria	NG	NGN	392	0.00131
Niue	NU	NZD	392	0.00131
Norfolk Island	NF	AUD	392	0.00131
Northern Mariana Islands	MP	USD	392	0.00131
Norway	NO	NOK	392	0.00131
Oman	OM	OMR	392	0.00131
Pakistan	PK	PKR	392	0.00131
Palau	PW	USD	392	0.00131
Palestinian Territory, Occupied	PS	ILS	392	0.00131
Panama	PA	PAB	392	0.00131
Papua New Guinea	PG	PGK	392	0.00131
Paraguay	PY	PYG	392	0.00131
Peru	PE	PEN	392	0.00131
Philippines	PH	PHP	392	0.00131
Pitcairn	PN	NZD	392	0.00131
Poland	PL	PLN	1000	0.00131
Portugal	PT	EUR	392	0.00131
Puerto Rico	PR	USD	392	0.00131
Qatar	QA	QAR	392	0.00131
Réunion	RE	EUR	392	0.00131
Romania	RO	RON	392	0.00131
Russian Federation	RU	RUB	392	0.00131
Rwanda	RW	RWF	392	0.00131
Saint Helena	SH	SHP	392	0.00131
Saint Kitts and Nevis	KN	XCD	392	0.00131
Saint Lucia	LC	XCD	392	0.00131
Saint Pierre and Miquelon	PM	EUR	392	0.00131
Saint Vincent and Grenadines	VC	XCD	392	0.00131
Saint-Barthélemy	BL	EUR	392	0.00131
Saint-Martin (French part)	MF	EUR	392	0.00131
Samoa	WS	WSN	392	0.00131

Country	Code	Currency	Co2 Factor	Trees planted factor
Sao Tome and Principe	ST	STD	392	0.00131
Saudi Arabia	SA	SAR	392	0.00131
Senegal	SN	XOF	392	0.00131
Serbia	RS	RSD	392	0.00131
Seychelles	SC	SCR	392	0.00131
Sierra Leone	SL	SLL	392	0.00131
Singapore	SG	SGD	540	0.00131
Slovakia	SK	SKK	392	0.00131
Slovenia	SI	EUR	392	0.00131
Solomon Islands	SB	SBD	392	0.00131
Somalia	SO	SOS	392	0.00131
South Africa	ZA	ZAR	392	0.00131
South Georgia and the South Sandwich Islands	GS	GBP	392	0.00131
South Sudan	SS	SDD	392	0.00131
Spain	ES	EUR	404	0.00135
Sri Lanka	LK	LKR	392	0.00131
Sudan	SD	SDG	392	0.00131
Suriname *	SR	SRD	392	0.00131
Svalbard and Jan Mayen Islands	SJ	NOK	392	0.00131
Swaziland	SZ	SZL	392	0.00131
Sweden	SE	SEK	392	0.00131
Switzerland	CH	CHF	392	0.00131
Syrian Arab Republic (Syria)	SY	SYP	392	0.00131
Taiwan, Republic of China	TW	USD	392	0.00131
Tajikistan	TJ	TJS	392	0.00131
Tanzania *, United Republic of	TZ	TZS	392	0.00131
Thailand	TH	THB	392	0.00131
Timor-Leste	TL	USD	392	0.00131
Togo	TG	XOF	392	0.00131
Tokelau	TK	NZD	392	0.00131
Tonga	TO	TOP	392	0.00131
Trinidad and Tobago	TT	TTD	392	0.00131
Tunisia	TN	TND	392	0.00131
Turkey	TR	TRY	392	0.00131
Turkmenistan	TM	TMM	392	0.00131
Turks and Caicos Islands	TC	USD	392	0.00131
Tuvalu	TV	AUD	392	0.00131
Uganda	UG	USD	392	0.00131
Ukraine	UA	UAH	392	0.00131
United Arab Emirates	AE	AED	392	0.00131
United Kingdom	GB	GBP	392	0.00131
United States Minor Outlying Islands	UM	USD	392	0.00131
United States of America	US	USD	689.56	0.039
Uruguay	UY	UYU	392	0.00131
Uzbekistan	UZ	UZS	392	0.00131
Vanuatu	VU	VUV	392	0.00131
Venezuela (Bolivarian Republic of)	VE	VEF	392	0.00131

Country	Code	Currency	Co2 Factor	Trees planted factor
Virgin Islands, US	VI	USD	392	0.00131
Wallis and Futuna Islands	WF	XPF	392	0.00131
Western Sahara	EH	MAD	392	0.00131
Yemen	YE	YER	392	0.00131
Zambia	ZM	ZMK	392	0.00131
Zimbabwe	ZW	ZWD	392	0.00131

**Memorandum of Understanding (MOU):
(Shakopee's East Middle School - Solar for Schools Project SFS22-1049)**

This MOU establishes a mutual understanding between potential Solar for Schools grant recipient, Shakopee School District, ("Grantee") and Shakopee Public Utilities ("Utility") regarding Grantee's installation of a solar photovoltaic system ("System") made possible, in part, by the Solar for Schools grant program ("SFS") under [Minnesota Statutes § 216C.375](#). The intent of this MOU is to allow Utility the opportunity to provide input and clarity related to the below listed topics, assisting with the accuracy, and streamlining of the System procurement and installation process. This MOU does not create or replace any existing rates or tariffs currently in effect as established by Utility.

SFS was established by the State Legislature in 2021 and designed to provide grants to stimulate the installation of solar energy systems on or adjacent to school buildings by reducing the cost, and to enable schools to use the solar energy system as a teaching tool that can be integrated into the school's curriculum. The Minnesota Department of Commerce developed and administers SFS for schools outside of Xcel Energy Territory ([Minn. Stat. § 216C.375](#)).

Utility and Grantee mutually understand that:

- ❖ the intent of financial information submitted here is to inform Grantee's financial modeling of the System;
- ❖ the assumptions utilized in financial modeling of the System have significant impact on the projected lifetime cashflow and subsequent overall value of the System;
- ❖ Utility rates are regulated, and customers, including Grantee, have the ability to provide input;
- ❖ future changes to Grantee's electric rate and tariff cannot be precisely predicted, however, Utility may be able to improve financial modeling due to knowledge about its power supply and other utility costs which influence Grantee's electric rate; and
- ❖ the information submitted here is true and accurate to the best of Utility's knowledge.

[Check All] System Interconnection:

- Utility has reviewed the SFS System contract with Grantee selected solar developer and/or has engaged in discussion(s) with Grantee pertaining to the SFS System contract with Grantee selected solar developer.
- As the SFS System is shown to be designed and financed, Utility, as of the date under Utility's signature below, does not foresee any issues that would prevent System interconnection from proceeding.

[Check One or More] Electric Rate Escalator Assumption:

- Utility Submits the Following Average Historical Commercial Electric Rate Increase: See Attached Table
- Utility Submits the Following Future Forecasted Commercial Electric Rate Increase: See Attached Table
- Based on the above submitted historical and/or future forecasted commercial electric rate escalations, Utility recommends Grantee use the following average annual \$/kWh rate increase to inform the financial modeling of the System for the next 25 years of energy production:

[Check One] System Impact on Grantee Electric Tariff:

With current System design, in combination with known historical or project Grantee electricity use, Utility does not foresee that the interconnection of the System would result in Grantee transitioning to an alternate electric rate or tariff.

With current System design, in combination with known historical or project Grantee electricity use, Utility does foresee that the interconnection of the System would result in Grantee transitioning to an alternate electric rate or tariff

Utility unable to determine this based on the following factors.

Utility's authorized representative

Signature Greg Drent

Name Greg Drent

Title General Manager

Date 9/21/22

Grantee's authorized representative

Signature _____

Name _____

Title _____

Date _____

SLS Summary
8-Year Historical Data

Load Year	Usage	Annual Total Charges	Average cost per kWh	Year over Year Change
2011	XXX	XXX	XXX	XXX
2012	XXX	XXX	XXX	XXX
2013	742,120	\$ 87,199.72	\$ 0.1175	XXX
2014	683,899	\$ 85,268.99	\$ 0.1247	0.0072
2015	725,746	\$ 94,527.95	\$ 0.1302	0.0056
2016	986,293	\$ 120,418.75	\$ 0.1221	(0.0082)
2017	944,558	\$ 159,116.96	\$ 0.1685	0.0464
2018	818,160	\$ 104,718.13	\$ 0.1280	(0.0405)
2019	686,440	\$ 89,376.87	\$ 0.1302	0.0022
2020	798,680	\$ 93,026.13	\$ 0.1165	(0.0137)
2021	943,960	\$ 126,311.21	\$ 0.1338	0.0173

These figures include the following service points
 Middle School #2: 3949-003
 Central Elem: 1310-001
 District Office: 23457-010
 Pearson: 6561 -001
 Sweeney: 2259-002

** Please note that years 2011 & 2012 are not available in current system

SIS Summary
8-Year Historical Data

Load Year	Usage	Annual Total Charges	Average cost per kWh	Year over Year Change
2011	XXX	XXX	XXX	XXX
2012	XXX	XXX	XXX	XXX
2013	8,131,979	955,513.99	0.1175	XXX
2014	8,444,036	1,052,808.82	0.1247	0.0072
2015	8,960,720	1,067,813.12	0.1192	(0.0055)
2016	9,187,960	1,051,736.48	0.1145	(0.0047)
2017	8,509,474	995,141.56	0.1169	0.0025
2018	10,101,750	1,193,485.94	0.1181	0.0012
2019	10,191,190	1,239,216.42	0.1216	0.0035
2020	8,331,060	1,018,910.57	0.1223	0.0007
2021	8,915,900	1,100,638.17	0.1234	0.0011

These figures include the following service points
 Eagle Creek: 23457-004
 High School 1: 23457-001
 High School 4: 23457-011
 Jackson Elem: 23457-008
 Middle School 1: 3949-001
 Red Oak: 22027-001
 SunPath: 9846-001
 Sweeney: 5878-001
 West Jr. High: 2680-001
 High School 2: 23457-002

** Please note that years 2011 & 2012 are not available in current system

SLS Summary
10-Year Projections
(1% Increase Annually)

Load Year	Average cost per kWh Increase
2022	\$ 0.1351
2023	\$ 0.1365
2024	\$ 0.1379
2025	\$ 0.1392
2027	\$ 0.1406
2028	\$ 0.1420
2029	\$ 0.1435
2030	\$ 0.1449
2031	\$ 0.1463
2032	\$ 0.1478

SIS Summary
10-Year Projections
(1% Increase Annually)

Load Year	Average cost per kWh Increase
2022	\$ 0.1247
2023	\$ 0.1259
2024	\$ 0.1272
2025	\$ 0.1285
2027	\$ 0.1297
2028	\$ 0.1310
2029	\$ 0.1324
2030	\$ 0.1337
2031	\$ 0.1350
2032	\$ 0.1364



3080 4th Ave East
Shakopee, MN 55379

Proposal: 40KW Solar Installation - Middle School East

Date: 9/20/2022

Company: SPU/Shakopee School District

Attn: Brad/Greg

Introduction

This proposal is for the installation of a 40 Kilowatt solar panel system. The system proposed is a central inverter grid-tie system. The system will utilize the UNIRAC mounting system. The UNIRAC system is ballasted requiring no penetrations through the existing roofs. The modules we will utilize is the VSUN 455 wall module with SOLAREEDGE optimizers for every two modules. The system will be 480 volt three phase connections. The inverter output will be tuned to no more than 39.9KW.

Scope of Work

Middle School East

- Furnish and install complete UNIRAC mounting system
- Furnish and install (115) VSUN 455 watt solar modules
- Furnish and install (58) SOLAREEDGE P960 optimizers
- Furnish and install (1) SOLAREEDGE 40KW grid tie inverter
- Furnish and install concrete ballast blocks
- Furnish and install connection from array to the inverter
- Furnish and install connection from the inverter to the 480 volt panel
- Provide permit

Financial Summary

Choice Electric, Inc. will provide the labor and materials described in this proposal for

Middle School East: \$120,000.00

Authorization To Proceed

By signing this Authorization To Proceed, customer agrees to the above scope of work and pricing and authorizes Choice Electric, Inc. to proceed with the project as proposed.

_____ Date _____
Customer Signature

Customer Purchase Order _____

We appreciate this opportunity. Please contact me with any questions.

Jesse Thompson

Choice Electric, Inc.
952-445-2625 (office)
612-600-5670 (cell)
952-403-9220 (fax)

Annual Production

	Description	Output	% Delta
Irradiance (kWh/m ²)	Annual Global Horizontal Irradiance	1,383.5	
	POA Irradiance	1,499.6	8.4%
	Shaded Irradiance	1,488.4	-0.7%
	Irradiance after Reflection	1,435.4	-3.6%
	Irradiance after Soiling	1,406.7	-2.0%
	Total Collector Irradiance	1,406.7	0.0%
	Nameplate	73,671.1	
	Output at Irradiance Levels	72,342.7	-1.8%
	Output at Cell Temperature Derate	71,818.8	-0.7%
	Output After Mismatch	71,762.2	-0.1%
Energy (kWh)	Optimizer Output	70,757.1	-1.4%
	Optimal DC Output	70,543.6	-0.3%
	Constrained DC Output	69,791.2	-1.1%
	Inverter Output	68,733.0	-1.5%
	Energy to Grid	68,389.4	-0.5%
Temperature Metrics	Avg. Operating Ambient Temp		10.3 °C
	Avg. Operating Ccell Temp		17.4 °C
Simulation Metrics	Operating Hours	4671	
	Solved Hours	4671	

Condition Set

Description	Condition Set 1											
Weather Dataset	TMY, 10km grid (44.75,-93.55), NREL (prospector)											
Solar Angle Location	Meteo Lat/Lng											
Transposition Model	Perez Model											
Temperature Model	Sandia Model											
Temperature Model Parameters	Rack Type	a	b	Temperature Delta								
	Fixed Tilt	-3.56	-0.075	3°C								
	Flush Mount	-2.81	-0.0455	0°C								
Soiling (%)	J	F	M	A	M	J	J	A	S	O	N	D
	2	2	2	2	2	2	2	2	2	2	2	2
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.5% to 2.5%											
AC System Derate	0.50%											
Module Characterizations	Module	Uploaded By		Characterization								
	VSUN455-144BMH (VSUN)	VanMeter Inc		VSUN455-144BMH PAN, PAN								
Component Characterizations	Device	Uploaded By		Characterization								

Components

Component Name	Count	
Inverters SE40KUS (2021) (SolarEdge)	1 (40.0 kW)	
Strings 10 AWG (Copper)	4 (194.4 ft)	
Optimizers P960 (2022) (SolarEdge)	59 (56.6 kW)	
Module VSUN, VSUN455-144BMH (455W)	115 (52.3 kW)	

Wiring Zones

Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	13-33	Along Racking

Field Segments

Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Fixed Tilt	Landscape (Horizontal)	10°	180°	2.0 ft	1x1	115	115	52.3 kW

Design 1 Shakeopee Middle School, 1137 Marschall Rd, Shakopee, MN 55379

Report

Project Name Shakeopee Middle School
Project Address 1137 Marschall Rd, Shakopee, MN 55379
Prepared By Van Meter
 ewollbrink@vanmeterinc.com



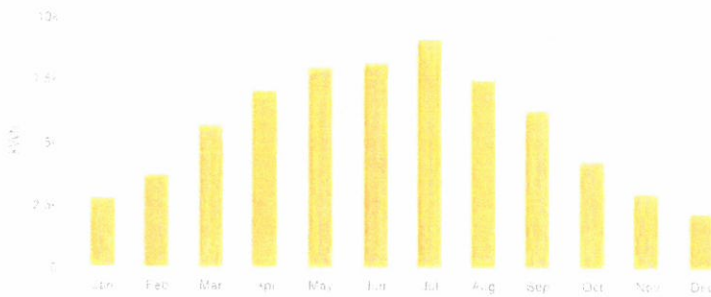
System Metrics

Design Design 1
Module DC Nameplate 52.3 kW
Inverter AC Nameplate 40.0 kW
 Load Ratio: 1.31
Annual Production 68.39 MWh
Performance Ratio 87.2%
kWh/kWp 1,307.0
Weather Dataset TMY, 10km grid (44.75,-93.55), NREL (prospector)
Simulator Version 59ff112199-e589839dda-98b2f3cf0a-0f45f9e2f1

Project Location

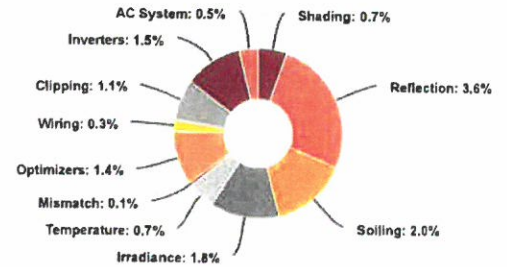


Monthly Production



Month	GHI (kWh/m ²)	POA (kWh/m ²)	Shaded (kWh/m ²)	Nameplate (kWh)	Grid (kWh)
January	46.2	57.3	55.9	2,711.9	2,827.0
February	64.8	76.7	76.1	3,724.4	3,762.7
March	107.5	120.2	119.5	5,897.1	5,779.2
April	145.9	155.9	155.1	7,713.7	7,123.5
May	175.1	180.2	179.1	8,900.0	8,043.4
June	184.2	187.4	186.4	9,277.9	8,263.9
July	204.0	209.4	208.4	10,373.6	9,192.5
August	161.5	170.7	169.9	8,461.3	7,564.4
September	126.9	139.7	139.1	6,899.0	6,323.7
October	79.2	91.6	91.1	4,471.6	4,283.6
November	51.2	63.2	62.4	3,044.4	3,001.7
December	37.1	47.2	45.4	2,196.1	2,223.8

Sources of System Loss



Detailed Layout



HelioScope

Shakopee Public School District - Shakopee East Middle School

Grant Application-Solar for Schools Program

Shakopee Public School District

Ed Zeimet

ezeimet@shakopee.k12.mn.us

Application Form

Step 2: Full Grant Application

Project Name*

Shakopee Public School District - Shakopee East Middle School

Solar for Schools Unique Project ID Number

Please enter your SFS Unique Project ID Number (including hyphens "-" using the format [SFS22-####](#)).

Applicants must obtain a unique project ID number from the Department *for each school/building applying* by emailing SolarForSchools@state.mn.us to request an ID. The email must include the Applicant's primary point of contact's name, title, phone number, and email address along with the site school/building name, school district/university or college system, district number, and office mailing address.

The ID must be included on all correspondences, including the Assessment, and during any phone calls with the Department. Applicants should plan for no less than one business day to receive their ID.

SFS22-1049

Developer Primary Contact Information

Provide the following primary contact information the Applicant's selected Developer.

Name (First and Last)*

Jesse Thompson

Title*

Vice President - Estimator

Email Address*

jthompson@choiceelec.com

Developer Name*

Choice Electric Inc

A. Project Information

System Updates from Step 1

Submit the Final System Size/Capacity (kWac)*

If the anticipated System size/capacity from Step 1 has changed, please provide the update here. The Applicant response from Step 1 has been populated below for your reference.

39.9

Submit the anticipated System size/capacity (kWac)

40

Final Annual Energy Production Estimate:*

The Applicant estimate of annual energy production from Step 1 has been populated below for your reference. Upload the System's expected Year 1 production calculations, broken down by month, and taking into account shade profile and other losses. **Include the percentage of annual energy this system is expected to offset for the Applicant.**

Solar usage & suitability - Shakopee East Middle.pdf

Estimated Annual Energy Production

Submit the estimated annual energy production, based on the Solar Suitability App (solar.maps.umn.edu/app/) for shade analysis in combination with PVwatts (<https://pvwatts.nrel.gov>) for production estimates or upload a copy of a virtual or preliminary site assessment. If uploading a document, type "see uploaded site assessment."

See uploaded site assessment.

Updates to System Site*

The Applicant's System site description from Step 1 has been populated below for your reference. Describe the final System design including details pertaining to the installation site, and/or upload updates pertaining to the site and System. Be sure to describe any known needs or issues which impacted the installation, energy production, or cost (e.g., percentage of site shading, roof age, roof vs. ground mounted, snow loss assumptions).

This will be a 51.87kW DC rooftop ballasted solar array system. We have chosen an area in the southern part of the school with a large open roof with no shading concerns.

System Site

Describe the site on or at which the System will be installed (e.g., roof or ground mounted) and any known needs or issues which may impact the installation or cost (e.g., shading, roof age vs. ground mounted).

A rooftop ballasted solar array will be installed. The Solar Array will be installed in areas that are not shaded to maximize performance. Our developer's engineers will work with the District's facilities staff to select roof locations best suited for solar.

System Project Details**System Site Plan***

Upload the System's site plan.

[Unanswered]

System Modules.*

List the number used, type/model, rated capacity of the System's modules.

(114) VSUN/VSUN455-144BMH, 455W

System Inverters*

List the number and type/model of inverters used.

(1) SolarEdge 40 kWac

Describe the permitting and interconnection process for the System*

Detail the Developer's processes and estimated timelines *in combination with* all relevant information gathered via **ongoing** communications with the Applicant as well as the Applicant's electric utility provider. Do you anticipate any delays or issues related to interconnection of the System (related to the Developer, Applicant, electric utility, or otherwise)?

Choice Electric has completed electrical designs and structural analysis for the solar array ballasted system. Choice Electric has submitted the interconnection application to Shakopee Public Utilities. Anticipated interconnection application approval in about 30 days after submittal (approximately the mid-October). After interconnection approval is received, Choice Electric will apply for electrical and building permits with the City of Shakopee. The building permit usually takes a few weeks for approval. Choice Electric will also procure the remaining system equipment at this time.

Construction of the solar array system will be scheduled after interconnection approval is received from Shakopee Public Utilities, all permits are obtained, and parts are received (October/November)

Construction of the system usually takes a few weeks. We anticipate we will start construction around October. Once construction is completed on the solar array system, an electrical inspection will be scheduled with the Electrical Inspector. After the system passes electrical inspection, we will work with Shakopee Public Utilities to schedule system commissioning. Anticipated system commissioned around November/December 2022. Choice will schedule an inspection to close out the building permit after the system is commissioned.

Choice Electric is ready to execute on this project and does not anticipate any delays or issues with the District or the utility. If any issues arise, we will work with the District and utility to address the issues in a timely manner so that the project can be completed as planned.

Upload a one-line diagram, with legend, of the System*

[Unanswered]

Upload copy of Developer System proposal and System contract agreement*

In (1) combined PDF document, upload a copy of the System proposal and proposed (or signed) contract agreement between the Applicant and the Developer. Document must, on some prominent way, list and highlight the System's total lifecycle cost, detailing costs pertaining to end-of-life removal and disposal, fair market value

provisions, and the responsibility for the System's operations and maintenance. *Details pertaining to these requirements can be found on the RFP Q&A, questions 15 - 17.*

[Unanswered]

B. Curriculum

Curriculum Instructions:

At the time of Step 1: School Readiness Assessment, schools submitted a plan for how the System will be utilized as a learning tool for students. The Applicant's Step 1 answers are also provided for reference. Provide any updates or additional detail to each section.

Updates to Curriculum Team*

If there were any changes to staffing in teachers, staff or other individuals since Step 1 was submitted, please provide those updates here. Applicant responses from Step 1 are populated below for your reference. If no changes, type 'no changes.'

Nancy Thul, Director of Teaching & Learning, nthul@shakopee.k12.mn.us

Monica Miller, Learning Teacher & Equity Coordinator, mamiller@shakopee.k12.mn.us

List Curriculum Team

List the name(s), title(s), and e-mail(s) of all teachers, staff, or other individuals participating in the development and integration of renewable or clean energy content into the school curriculum.

Nancy Thul will be mainly responsible for working with our teachers and staff to incorporate the curriculum provided by our developer. Additional contacts can be provided as the program is finalized.

Curriculum Development Updates*

Applicants are expected to demonstrate progress in curriculum development integration and/or planning. List any updates, changes, or additions regarding curriculum development and integration plans since Step 1 was submitted, including the level and type of assistance planned via the Developer. Describe here and/or upload below. Applicant responses from Step 1 are populated below for your reference. If no changes, type 'no changes.'

Applicants will be required to submit proof of further curriculum development and updates as part of Grant Contract deliverables.

MMPA Hometown Solar_Energy Education_Shakopee.pdf

Shakopee Middle East (6-8) is currently training teachers on new science curriculum to be implemented in the fall but they are interested in piloting some of the lessons in 5th grade, especially the activities around the real-time data.

Shakopee Public Utilities will assist the School District in implementing MMPA's Energy Education Lesson Plan Concepts to teachers.

Curriculum Development

Describe the curriculum development or integration plan. Be sure to include what has been accomplished to date and goal timelines.

We anticipate using the Education Curriculum provided by our developer that is designed to meet Minnesota State Standards, Next Generation Science Standards & 21st Century Learning Frameworks. The Curriculum

leverages the school's actual Solar Array that provides real-time on-line monitoring. We will work with our education staff to find paths to integrate the curriculum and its resources into the classrooms.

System's Real-Time Monitoring*

Describe how the System will relay real-time monitoring, and other related visible design components, as part of the curriculum. Describe if monitoring will be done in a prominent location and/or available on demand in the classroom.

Upload supporting documentation in PDF format as appropriate.

Choice Electric spoke with the distribution vender, Van Meter, and they had explained that the SolarEdge inverter has an app that can display the real-time production of the system. Shakopee will work with IT staff to determine options for adding the real-time monitoring to the website for public display as well as displays throughout the buildings.

C. Financing/Financial Need

Detailed Full Project Budget*

Describe the System's full project budget, including all funding or financing sources, mechanisms, and level of support. Indicate if each source is secure, proposed or unknown. Include the requested Solar for Schools final requested grant amount up to or below the maximum allowable grant value determined in Step 1, populated below for your reference. Be sure to also detail any payment schedule for the System between Applicant and Developer as well as the cost to purchase and install the System. **You will also be required, in a subsequent question, to also upload a PDF document with this information in table format.**

NOTE:

- Eligible costs include only the necessary costs to *purchase* and *install* that System, and does not include other costs such as those related to disposal and removal or operating and maintenance
- The final grant value is a *percentage* of the final System installation cost, in conjunction with the '% System Cost' limit.
- Any grants awarded will be done so preliminarily and on the condition that Grantee provide proof of funding sources or mechanisms covering any remaining costs associated with the purchase and installation of the System not covered by the Solar for Schools grant.

The system's full project budget is provided on the attached PDF. Primary funding for the project will come from the Maximum Allowable Grant Amount of \$102,000. The remainder of the project funding will be from Shakopee Public Schools capital reserves.

Identify Maximum Allowable Grant

Identify the **maximum allowable** grant, based on financial need as defined via Table 1 in the RFP, or posted on the Department's Solar for Schools page. Note, if deemed ready, the Full Grant Application will require submission of the actual project costs to the Department; the final grant award will be determined based on the maximum allowable grant thresholds in combination with known matching funds, not to exceed the full project cost.

\$102,000.00

Developer's Plans to Reduce Capital Expenses*

Describe any *Developer* efforts or commitments to provide financial assistance to the Applicant by (1) reducing the Applicant's initial capital expense to purchase and install the System and/or (2) helping to maximize the lifetime value of the System for the Applicant. **You will also be required, in a subsequent question, to also upload a PDF document with this information in table format.**

Examples include, but are not limited to detailing (1) where and how the full grant value is being passed onto the Applicant, (2) the lifetime value of the System without the grant, (3) any value or savings passed onto the Applicant via depreciation or ITC (where applicable), and (4) any other direct means or discounts the Developer is using to reduce the Applicant's capital expense, helping maximize the System's lifetime value.

Choice Electric's budget proposal provides installation and materials at competitive and fair prices. The full grant value will be applied to the installation and materials of the system.

Detailed Full Project Budget - Supporting Documentation*

Upload (1) PDF document with (3) separate tables detailing the full project budget:

- Developer Commitments/Discounts
- Applicant Expenses (e.g. payment schedule)
- Applicant Funding Sources (e.g. grants, loans, operating budget dollars, bank loans, etc.)

A *fourth* lifetime cash flow table is strongly encouraged and should be broken down by year, for either (1) the length of the contract with Developer or (2) length of module warranty, detailing:

- Expected lifetime System savings
- Assumptions used to model System savings
- Other System financial metrics
- Where and how Solar for Schools grant value will be passed onto the Applicant
- Where and how any Developer Commitments/Discounts will be passed onto the Applicant

Shakopee East Middle - System Costs & Energy.pdf

Developer Prevailing Wage Assurance*

As the Developer, describe how you will assure prevailing wage compliance, including with all subcontractors, as defined in Minn. Stat. 177.42, subd. 6; and adhere to the provisions of Minn. Stat. 177.43. Upload supporting documentation, such as highlighting this commitment in the contract with Applicant. Applicant responses from Step 1 pertaining to prevailing wage compliance are populated below for your reference.

Note: The Department will require the collection of prevailing wage reporting documentation during, and upon completion of, the project.

Shakopee Schools - 40 KW Solar - Middle School.pdf Choice Electric will comply with prevailing wage requirements by assuring that services provided by Choice Electric or its subcontractors, subject to prevailing wage requirements, are paid at prevailing wage. Choice will maintain and provide Customer MN Department of Labor and Industry Certified Payroll Forms for services performed subject to prevailing wage for itself and its subcontractors. Any subcontractor agreements for services provided to Choice will also require the subcontractor to provide services in conformance with prevailing wage. The subcontractor will be required to provide Choice with MN Department of Labor and Industry Certified Payroll Forms. All documentation will be provided to the Applicant.

Prevailing Wage Compliance

Describe the prevailing wage compliance in the procurement process, as defined in Minn. Stat. 177.42, subd. 6, and adhere to the provisions of Section 177.43, ensuring that the Developer, including all subcontractors, will comply with it.

Note: In Step 2: Full Grant Application, the Developer must also describe a plan to assure prevailing wage compliance.

As required by the Solar for Schools Program, the District will require our selected developer to provide labor and subcontracted labor that conforms with prevailing wage requirements, and will require them to provide required documentation to demonstrate so. We will also require that they provide language in the contract affirming the foregoing.

File Attachment Summary

Applicant File Uploads

- **Solar usage & suitability - Shakopee East Middle.pdf**
- **MMPA Hometown Solar_Energy Education_Shakopee.pdf**
- **Shakopee East Middle - System Costs & Energy.pdf**
- **Shakopee Schools - 40 KW Solar - Middle School.pdf**



RESULTS

65,055 kWh/Year*

System output may range from 61,750 to 66,539 kWh per year near this location

Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at <https://sam.nrel.gov>) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

Disclaimer: The PVWatts® Model ("Model") is provided by the National Renewable Energy Laboratory ("NREL"), which is operated by the Alliance for Sustainable Energy, LLC ("Alliance") for the U.S. Department Of Energy ("DOE") and may be used for any purpose whatsoever.

The names DOE/NREL/ALLIANCE shall not be used in any representation, advertising, publicity or other manner whatsoever to endorse or promote any entity that adopts or uses the Model. DOE/NREL/ALLIANCE shall not provide any support, consulting, training or assistance of any kind with regard to the use of the Model or any updates, revisions or new versions of the Model.

YOU AGREE TO INDEMNIFY DOE/NREL/ALLIANCE, AND ITS AFFILIATES, OFFICERS, AGENTS, AND EMPLOYEES AGAINST ANY CLAIM OR DEMAND, INCLUDING REASONABLE ATTORNEYS' FEES, RELATED TO YOUR USE, RELIANCE, OR ADOPTION OF THE MODEL FOR ANY PURPOSE WHATSOEVER. THE MODEL IS PROVIDED BY DOE/NREL/ALLIANCE "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. IN NO EVENT SHALL DOE/NREL/ALLIANCE BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO CLAIMS ASSOCIATED WITH THE LOSS OF DATA OR PROFITS, WHICH MAY RESULT FROM ANY ACTION IN CONTRACT, NEGLIGENCE OR OTHER TORTIOUS CLAIM THAT ARISES OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE MODEL.

The energy output range is based on analysis of 30 years of historical weather data, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)
January	2.77	3,697
February	3.62	4,388
March	4.76	6,103
April	5.41	6,318
May	5.71	6,727
June	6.32	7,085
July	6.78	7,447
August	5.93	6,652
September	5.12	5,795
October	3.70	4,482
November	2.83	3,435
December	2.17	2,926
Annual	4.59	65,055

Location and Station Identification

Requested Location	1137 Marschall road, shakopee
Weather Data Source	Lat, Lng: 44.77, -93.5 1.1 mi
Latitude	44.77° N
Longitude	93.50° W

PV System Specifications

DC System Size	52.325 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tilt	20°
Array Azimuth	180°
System Losses	18.37%
Inverter Efficiency	96%
DC to AC Size Ratio	1.2

Performance Metrics

Capacity Factor	14.2%
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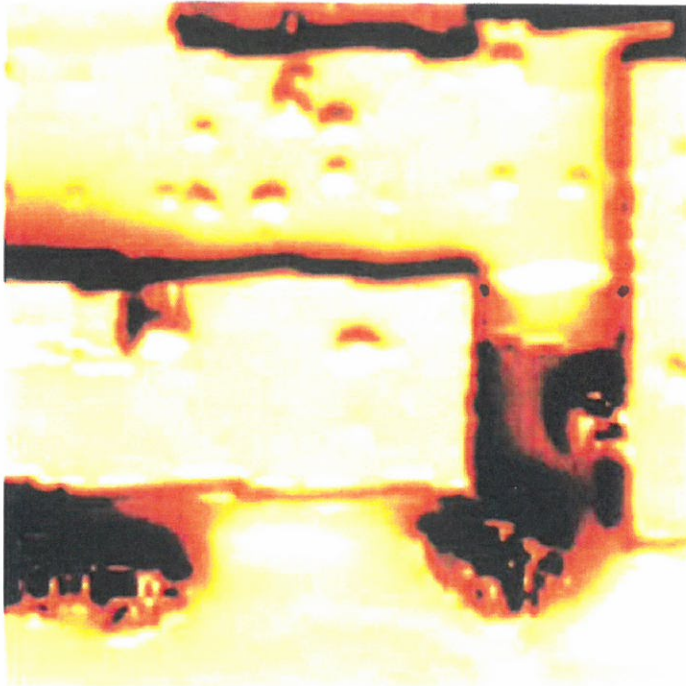
Solar Suitability Report

Latitude: 44.785612 Longitude: -93.503328

mn.gov/solarapp

Fri Apr 22, 2022

ISD 720 Shakopee Public Schools - East Middle
1137 Marshall Rd Shakopee MN



This site is **Optimal**. It would need a **4.49 kW** system to generate **50%** of average household use. This system would cost approximately **\$16,853**. System payback is **12.3 years** after tax credit.

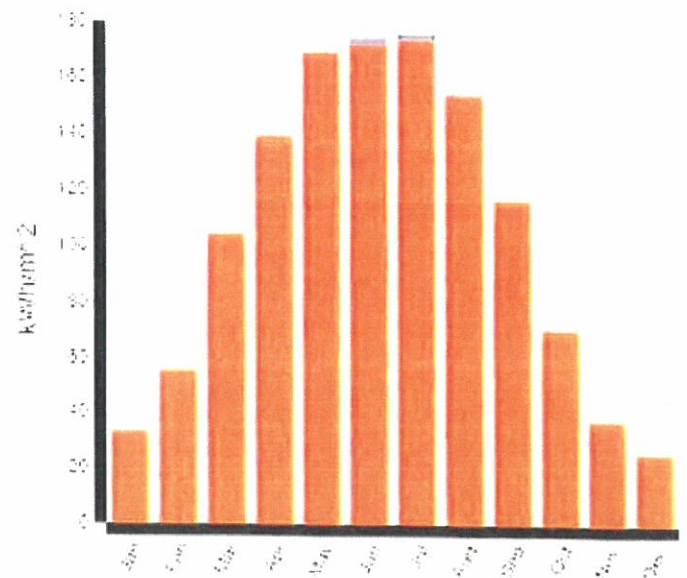
Utility Service Provider:
Shakopee Public Utilities
255 Sarazin St., P.O. Box 470
Shakopee, MN 55379
(952) 445-1988

www.shakopee.org

Site Details:

Total Annual Insolation: 1243.78 kWh/m²
Avg Insolation per Day: 3.41 kWh/m²
Source Data: Spring and Fall 2011

Amount Actual Sun



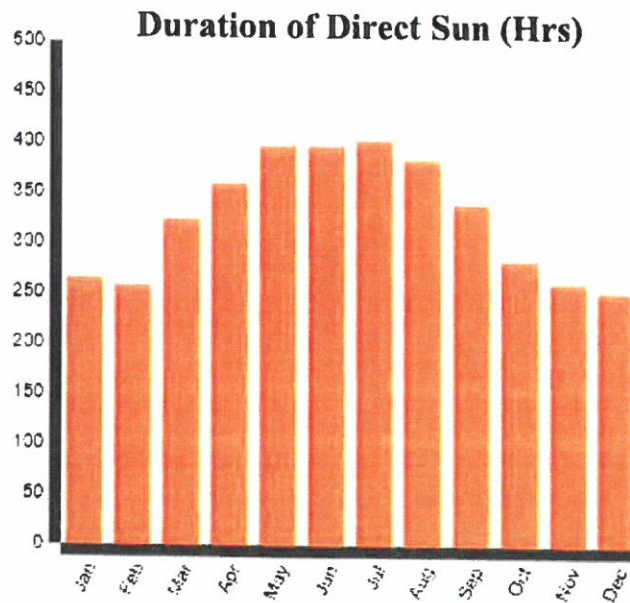
Solar Calculator


User Input	Value	Tips and Notes
Average utility use (per month)	800 kWh	The average residential household uses 800 kWh/month. If you know your monthly usage, fill it in here.
Cost / kWh	\$0.12/kWh	Minnesota's average residential cost of electricity is \$0.12/kWh. If you know your cost of electricity enter it here.
Percent of electricity provided by solar	50%	Experiment with different percentages here to see how system cost varies. Think about how energy efficiency improvements bring down the cost of your solar system.

Outputs	Value	Tips and Notes
Size of system needed	4.49 kW	Result is based on values provided for monthly electricity use and desired percentage covered by solar. It also includes a derate of 0.87. A factor accounting for conversion of the array's DC nameplate capacity to the system's AC power rating at Standard Test Condition.
System cost estimate	\$16,853	Result is based on an average 2020 Minnesota residential system cost of \$3,750 per kW. Costs will vary depending on the specifics of your system.
Payback without incentives	16.56 years	Result assumes that electricity costs will rise 3.5% each year over 25 years.
Payback with Tax Credit	12.26 years	Your system may be eligible for a federal tax credit. This result shows the payback of your system with the 26% tax credit applied.

Month	Actual % Sun**	Total kWh/m2	Duration (Hrs)
January	100%	34.14	266.9
February	100%	55.99	259.4
March	100%	104.74	325.8
April	100%	139.94	361.1
May	100%	169.74	398.5
June	98%	172.27	398.1
July	99%	173.96	404.0
August	100%	154.24	384.5
September	100%	117.13	341.6
October	100%	70.93	285.0
November	100%	38.21	262.9
December	100%	26.65	254.2

**These percentages should be used as the monthly shading derate factors % on the Xcel Solar Rewards application



This service made possible by:

MINNESOTA COMMERCE
 DEPARTMENT
 ENERGY RESOURCES

East Middle School

System Sizing & Energy Value	
Solar Array Size (kW DC)	52.33
Year 1 production (kWh/year)	65055
Year 1 Total Energy Expense Savings	\$5,100.31
Year 1 Average Utility Cost	\$0.0784
<i>Average increase in utility costs (% / year)</i>	1.00%
<i>kWh generated per kW DC of Solar Panels</i>	1243.2871
<i>Panel Degradation - (% / year)</i>	0.50%

Average Utility Cost is calculated based upon Shakopee Public Utilities' retail rate.

The retail rate is calculated using only Energy Charge, Power Cost Adjustment, Relocation Underground Charge, and Conservation Charge. This does not factor in flat charges such as demand.

Year	Utility Bill Savings		
	Electricity Produced (kWh/year)	Annual Savings (\$)	Cumulative Annual Savings (\$)
1	65055	\$ 5,100.31	\$ 5,100.31
2	64730	\$ 5,125.56	\$ 10,225.87
3	64406	\$ 5,150.93	\$ 15,376.80
4	64084	\$ 5,176.43	\$ 20,553.23
5	63764	\$ 5,202.05	\$ 25,755.28
6	63445	\$ 5,227.80	\$ 30,983.08
7	63128	\$ 5,253.68	\$ 36,236.76
8	62812	\$ 5,279.68	\$ 41,516.44
9	62498	\$ 5,305.82	\$ 46,822.26
10	62185	\$ 5,332.08	\$ 52,154.34
11	61874	\$ 5,358.48	\$ 57,512.82
12	61565	\$ 5,385.00	\$ 62,897.82
13	61257	\$ 5,411.66	\$ 68,309.47
14	60951	\$ 5,438.44	\$ 73,747.92
15	60646	\$ 5,465.36	\$ 79,213.28
16	60343	\$ 5,492.42	\$ 84,705.70
17	60041	\$ 5,519.61	\$ 90,225.31
18	59741	\$ 5,546.93	\$ 95,772.23
19	59442	\$ 5,574.38	\$ 101,346.62
20	59145	\$ 5,601.98	\$ 106,948.59
21	58849	\$ 5,629.71	\$ 112,578.30
22	58555	\$ 5,657.57	\$ 118,235.88
23	58262	\$ 5,685.58	\$ 123,921.46
24	57971	\$ 5,713.72	\$ 129,635.18
25	57681	\$ 5,742.01	\$ 135,377.19
26	57393	\$ 5,770.43	\$ 141,147.62
27	57106	\$ 5,798.99	\$ 146,946.61
28	56820	\$ 5,827.70	\$ 152,774.31
29	56536	\$ 5,856.54	\$ 158,630.85
30	56254	\$ 5,885.53	\$ 164,516.38
31	55972	\$ 5,914.67	\$ 170,431.05
32	55692	\$ 5,943.95	\$ 176,375.00
33	55414	\$ 5,973.37	\$ 182,348.37
34	55137	\$ 6,002.94	\$ 188,351.30
35	54861	\$ 6,032.65	\$ 194,383.95
36	54587	\$ 6,062.51	\$ 200,446.47
37	54314	\$ 6,092.52	\$ 206,538.99
38	54042	\$ 6,122.68	\$ 212,661.67
39	53772	\$ 6,152.99	\$ 218,814.66
40	53503	\$ 6,183.44	\$ 224,998.10

2022-2023 (September 1, 2022-August 31, 2023) Lease Agreement
Barracuda Aquatics Club, Shakopee Community Education/Shakopee Public Schools
West Middle School Swimming Pool Facilities

Barracuda Aquatics Club (BAC) Responsibilities

1. Provide current insurance to cover BAC members/participants in the case of an injury or accident. BAC will provide proof of insurance and keep policy current, naming Shakopee School District #720 as "additionally insured".
2. Provide qualified/certified USS (United States Swimming) coaches to supervise on site for all BAC activities. It is expected that BAC have a certified lifeguard on deck at all times while participants are in the pool, and that BAC will have a certified lifeguard supervising the diving well area if the diving well area is being used. BAC will provide current copies of coaches & staff CPR, First Aid, and Coaches Safety Training cards to Community Education. BAC will provide an appropriate on-going ratio of coaches to swimmers for all activities. BAC will provide for their own first aid equipment & supplies, which shall be stored at the West Middle School pool office.
3. BAC members and participants actions with equipment and facilities are expected to comply with the rules and regulations of the facility and of all school district policies. The West Middle School pool office areas should only be used in the event of an emergency.
4. BAC is responsible to schedule the use of the Middle School facilities in a timely fashion with Community Education per facility use policy.
5. BAC is responsible for the cleaning up and picking up after all activities in the areas that they use (pool, deck, storage area, bleachers, locker rooms, etc.). BAC will have key access to the locked, middle caged storage area under the bleachers at the West Middle School pool. BAC will not store any items on the pool deck and will store those items in this locked caged area.
6. BAC is responsible for the pool, pool deck, storage area, bleachers, locker rooms, and the locking of all doors. Also, BAC will operate the building security system when there is not a building supervisor and/or custodian on duty. When a custodian and/or building supervisor is on duty, it is BAC's responsibility to report to either when they are done using the facility. BAC will open the facility for its members/participants and keep the facility locked up during its practice activities.
7. BAC is responsible to communicate with Community Education on a monthly basis. It is expected that BAC will report to Community Education on the cleanliness of the locker rooms, pool, pool deck, storage area, bleachers, etc.
8. BAC staff, members, participants, or spectators shall not bring food or beverages onto the pool deck, locker rooms or bleachers. Food or beverages should be consumed in the school carpeted hallway immediately next to the pool.
9. BAC staff, members, participants, or spectators are not to wander through the school and should remain in the swimming pool facility end of the building. It is expected that all BAC members, participants, and spectators will remain in the pool area. The pool office is off-limits to BAC members, participants, and spectators. The only person(s) having emergency access to the pool office is BAC staff.
10. BAC staff, members, participants, or spectators need to park their vehicles in the legally striped asphalt parking locations at the Middle School facilities. Individuals are not to park temporarily along or in any yellow marked, unmarked, non-curbed or handicapped marked locations.
11. BAC participants, members, and spectators are to enter and leave through the main external pool doors at the Middle School building. The pool deck doors are to be used for emergency exit purposes only. BAC participants should enter & leave from the hallway locker room doors. Parents and spectators are to use the bleacher area only, when entering/leaving the building. The only individuals to be on the pool deck are BAC staff and participants. People with street shoes walking on the deck cause dirt and other substances to enter into the pool water system.
12. BAC shall pay \$1050.00 per month for use of a Middle School swimming pool for the months of September 2022-August 2023 for regular practices, clinics and registration. If BAC does not use the

pool/facility during a month, BAC will not be charged use for that month. If BAC uses the pool/facility for one day during said month, they are charged the monthly rate.

- a. Monthly payments are due in this contract by the 1st day of each month for the upcoming month.
- b. Access to the pool for future months will not be provided if payments are not paid up to date.

(History: 2021-2022: \$12,120; 2020-2021: \$11,400; 2019-2020: \$10,800; 2018-2019: \$9300; 2017-2018, \$8100; 2016-2017, \$7500; 2015-2016, \$7200; 2014-2015, \$7020; 2013-2014, \$6900; 2012-2013, \$6300; 2011-2012, \$5800; 2010-2011, \$5800; 2009-2010, \$4800; 2008-2009, \$3500; 2007-2008, \$2900; 2006-2007, \$2100; 2005-2006, \$2100; 2004-2005, \$2000; 2003-2004, \$1800; 2002-2003, \$1800; 2001-2002, \$1500; 2000-2001, \$1500; 1999-2000, \$1250; 1998-99, \$1100; 1997-98, \$950; 1996-97, \$800; 1995-96, \$750; 1994-95, \$700; 1993-94, \$350).

- 13. It is expected that BAC will use good judgment and common sense in the use of any and all keys to the Middle School pool area (lock box access).
- 14. BAC will have access to the boys & girls locker rooms, but only for practice and event usage. Locks are not to be kept on locker room lockers, except during those practice or event times. A locker room light key will be provided to BAC staff for their use.
- 15. All other school district facility use guidelines & policies are to be followed by the BAC, its staff, participants and spectators.
- 16. The school district reserves the right to close the pool for any and all necessary pool maintenance. BAC will be charged a pro-rated amount if this occurs.

Shakopee School District Responsibilities

- 1. Provide a safe and clean environment when using either Middle School facility. It is Community Education's responsibility to notify BAC when the pool facilities are not available for use. When the pool facility is not available for use, the contract remains in place, as the contract is not on a per hourly basis, rather on a contracted agreed upon amount for the month/year.
- 2. Provide BAC with three keyless entry cards to the West Middle School and one set of keys to the pool area/locker room doors as appropriate. These keys will be stored at the West Middle School BAC labeled key box located at the keyless point of entry into the building.
- 3. Provide the pool with up-to-date emergency equipment and signage for pool safety & first aid.
- 4. Provide for the preparing of the pool and/or facility for a special event with items, including tables, chairs, etc. needed to host an event.
- 5. Provide for the annual review of this contractual agreement (review to be held no later than July/August of each year) with BAC officials/staff. BAC will be invoiced on a monthly basis for this agreement year. The monthly invoice will be sent to: BAC Treasurer, 10695 Lee Drive, Eden Prairie, MN 55347.

BAC Head Coach

Date

BAC President

Date

Superintendent of Schools

Date

School Board Chairperson

Date

Minnesota Department of Education
Levy Limitation and Certification Report
2022 Payable 2023

District Number-Type: 0720-01
District Name: Shakopee Public School District
Home County: SCOTT

Date Printed: 9/20/22
Limits Updated: 9/19/22
Proposed Submitted: 9/20/22

LIMIT

PROPOSED

SUBTOTALS BY LEVY CATEGORY

- GENERAL - RMV VOTER - JOBZ EXEMPT
- GENERAL - RMV OTHER - JOBZ EXEMPT
- GENERAL - NTC VOTER - JOBZ EXEMPT
- GENERAL - NTC OTHER - JOBZ EXEMPT
- COMMUNITY SERVICE - NTC OTHER - JOBZ EXEMPT
- GENERAL DEBT - NTC VOTER - JOBZ NONEXEMPT
- GENERAL DEBT - NTC OTHER - JOBZ NONEXEMPT
- OPEB DEBT - NTC VOTER - JOBZ NONEXEMPT
- OPEB DEBT - NTC OTHER - JOBZ NONEXEMPT

The School Board has voted to certify the MAXIMUM levy authority.

After October 1st, the county auditor should consult the Minnesota Department of Education (MDE) website for the district's current levy limitation and use this amount for the Truth in Taxation notices.

SUBTOTALS BY FUND

- GENERAL FUND
- COMMUNITY SERVICES FUND
- GENERAL DEBT SERVICE FUND
- OPEB/PENSION DEBT SERVICE FUND

If there is a change to the district's levy limitation after October 1st, the county will be notified by MDE via email. Before finalizing tax computations for the Truth in Taxation notices, counties should double check the MDE website to be sure no changes have been made to the district's levy limitation that the county is not already aware of through this email process.

SUBTOTALS BY TAX BASE

- REFERENDUM MARKET VALUE
- NET TAX CAPACITY

SUBTOTALS BY TRUTH IN TAXATION CATEGORY

- VOTER APPROVED
- OTHER

TOTAL LEVY

TOTAL LEVY

The school district must submit the completed original of this form to the home county auditor by September 30, 2022. A duplicate form must be submitted to Minnesota Department of Education, School Finance Division, 400 NE Stinson Blvd., Minneapolis, MN 55413, by October 7, 2022.

The certified levy listed above is the levy voted by the school board for taxes payable in 2023.

Signature of School Board Clerk

Date of Certification



Finance & Operations

Superintendent: Dr. Mike Redmond
Director of Finance & Operations: Bill Menozzi

To: Shakopee School Board
From: Bill Menozzi, Director of Finance and Operations
Date: September 26, 2022
Re: Preliminary Approval for Annual Truth In Taxation: 2023 Taxpayer Obligations

INTRODUCTION

The purpose of this memo is to update the School Board on the 2022 Payable 2023 annual levy process and timeline. This is an annual process as required by MN Statutes 275.065. This is the process that a public school district uses in order to fund the payment of their existing obligations.

TIMELINE

September 26, 2022: 2022 Payable 2023 proposed levy for School Board action.

All School Districts must certify a proposed levy to the home county auditor by September 30. School districts are given the option to certify a proposed levy as "maximum" of a specific dollar amount. The vast majority of school districts certify at the "maximum" level to allow for any corrections/changes in the levy totals between September and the final levy certification in December. The final levy certification in December requires a specific dollar amount for approval.

- The action being recommended on September 26 is a formality. Final action, on the exact levy amount, occurs at the December truth-in-taxation meeting.
- This action is the beginning of the formal process to fund payment of school district obligations. IE. To not 'levy to the maximum' in September, or not approve this levy in December, would leave the district unable to pay our current obligations, and in the case of bond payments leave us in default on these payments.

November 2022: District taxpayers receive proposed/estimated property tax statements for taxes payable in 2023.

December 12, 2022: Truth in Taxation presentation and School Board recommendation to certify the final levy for taxes payable in 2023. This will be the first step in determining school district revenue for the 2023-24 school year.

- *All School Districts must hold a truth in taxation meeting (can be part of the regular Board meeting) between November 24 and December 28 for purposes of certifying the final levy for taxes payable in 2023.*

SCHOOL BOARD ACTION ITEM

Administration recommends School Board approval of the proposed levy for taxes payable in 2023 at the "maximum" amount. Please see the enclosed levy limitation and certification report from the Minnesota Department of Education for additional details.

**SCHOOL RESOURCE OFFICER AGREEMENT BY AND BETWEEN
SHAKOPEE INDEPENDENT SCHOOL DISTRICT #720 AND
THE CITY OF SHAKOPEE**

This agreement made and entered into this 19th day of July 2022, by and between the CITY OF SHAKOPEE and SHAKOPEE SCHOOL DISTRICT #720.

GOALS AND OBJECTIVES

1. Establish a positive working relationship in a cooperative effort to prevent juvenile delinquency and assist in student development.
2. Maintain a safe and secure environment on campus, which will be conducive to learning.
3. Promote positive attitudes regarding the police role in society and to inform students of their rights and responsibilities as lawful citizens.
4. Serve as a resource for school district safety plans.

A. EMPLOYMENT AND ASSIGNMENT OF SCHOOL RESOURCE OFFICER

1. The City agrees to provide a total of four (4) School Resource Officers (SRO's) to the district for assignment as needed to the High School and/or the Middle and Elementary Schools for the 2023-2025 calendar years.
2. The City in consultation with the School District, shall select the School Resource Officers and assign one to each school.
3. In the event the SRO is absent from work, the SRO is to notify both his/her police supervisor and the principal at the school to which they are assigned. The city agrees to assign a SRO alternate in case of long-term illness.
4. School Resource Officers shall remain employees of the City and shall not be employees of Shakopee School District #720. The School District and the City acknowledge that the School Resource Officers remain responsive to the command of the Shakopee Police Department.
5. The City shall provide any required clothing, uniforms, vehicles, necessary equipment and supplies for the SRO to perform law enforcement duties. The School District shall provide the School Resource Officers with an office, telephone, and other supplies necessary to perform required duties as outlined pursuant to Section C. of this agreement.

B. HOURS AND SPECIAL EVENTS

1. Each SRO is assigned to a school on a full-time basis. The SRO's shall be on duty at their assigned schools prior to school's start and at school's dismissal, except in cases when the SRO is flexing their schedule to attend a school event outside regular school hours. During regular hours, SRO's may be off campus performing such tasks as may be required by their assignment (i.e., Court, Training, Arrest).
2. If authorized by his/her supervisor, the SRO shall be present at school special events that occur outside of normal school hours. The City shall be responsible for any overtime pay associated with the SRO's attendance at these events.
3. All School Resource Officers shall carry their duty weapon while at school.

C. DUTIES OF THE SCHOOL RESOURCE OFFICER

1. The SRO shall assist the principal in developing plans and strategies to prevent and/or minimize dangerous situations that may occur on campus, and also address other issues determined important by the principal.
2. The SRO shall present programs on various topics to students. Subjects shall include a basic understanding of law, role of law enforcement, drug awareness, anger management, and the mission of law enforcement.
3. The SRO's will interact with students on an individual basis and in small groups.
4. The SRO shall make him/herself available for conferences involving teachers, parents and faculty.
5. The SRO shall be familiar with agencies and resources that offer assistance to youth and their families and make referrals to agencies when necessary.
6. The SRO shall take law enforcement action when necessary.
7. The SRO shall contact the principal of the school or their designee about his or her actions to make them aware of arrest or crime.
8. The SRO shall notify the principal or their designee before removing a student from school.
9. The SRO can take law enforcement action against intruders and unwanted guests who appear on school property.
10. The SRO shall conduct investigations of crimes, which occur at their assigned schools, and use other resources, if needed, for follow-up investigations.

11. The SRO will turn in a monthly summation report to the SRO supervisor at the end of every month.
12. The SRO shall not be used as a school disciplinarian. If the principal believes an incident is a violation of the law, they may contact the SRO to see if law enforcement action is needed.
13. The SRO shall follow the Shakopee Police Department's Standard Operating Procedures and General Orders when confiscating drugs from students on school property.
14. The SRO shall follow the guidelines of the Minnesota State Statutes, Case Law, School Board Policy and the Shakopee Police Department's Standard Operating Procedures and General Orders in regard to investigations, interviews and searches relating to juveniles.

D. PRIVACY OF PUPIL RECORDS

Both the City and School District agree they will be in compliance with all data privacy laws and rules.

E. RIGHTS AND DUTIES OF SHAKOPEE SCHOOL DISTRICT #720

The School District shall provide to the full-time SRO the following materials and facilities, which are deemed necessary to the performance of the SRO:

1. Access to a temperature controlled and properly lighted private office containing a telephone line to be used for general business purposes.
2. A desk with drawers, a chair and a filing cabinet, which can be locked and secured.
3. Access to a computer terminal or computer hook-up.

The city will supply the officers with the usual and customary office supplies and forms required in the performance of their duty.

F. PROGRAM FUNDING

For the 2023-2025 contract, the School District funded approximately 50% of the officers' annual salary and benefits. The payment schedule for reimbursement to the City shall be as follows:

2023/2024 School Year - \$289,300
2024/2025 School Year - \$296,500
2025/2026 School Year - \$303,900

G. BILLING

The City shall invoice the School District on January 1, 2023, and annually each year thereafter consistent with the payment schedule.

H. TERM

This agreement shall commence on January 1, 2023, for the school year 2023/2024 and continue until revised by mutual consent or terminated by either party upon 60 days' advance written notice.

I. INDEMNIFICATION

Except for claims arising out of the willful or negligent act of the other party or its representatives, each party shall indemnify and defend the other party against all claims, expenses, and liabilities incurred, including reasonable attorney fees, related to claims for loss of life, personal injury, and/or damage to property arising out of any occurrence in, upon or at the School District properties in accordance with the execution of the School Resource Officers' duties under this contract.

J. NOTICE

Any notice, demand, request, or other communication that may or shall be given or served by the parties, shall be deemed to have been given or served on the date the same is deposited in the United States mail, registered or certified, postage prepaid, and addressed as follows: If to the City - Attn: Police Chief, Shakopee Police Department, 475 Gorman Street, Shakopee, Minnesota 55379; and, If to the School District - Attn: Superintendent, 1200 Town Square, Shakopee, Minnesota 55379.

K. DISMISSAL OF SRO

1. In the event the principal of the school that the SRO is assigned to feels that the particular SRO is not effectively performing his or her duties and responsibilities, the principal shall contact the SRO supervisor. Within a reasonable amount of time, after receiving the information from the principal, the SRO supervisor shall advise the Chief of Police of the principal's request. If the Chief of Police desires, the principal and the Chief of Police, or their designees, shall meet with the SRO to mediate or resolve any problems, which may exist.
2. The Chief of Police may dismiss or reassign a SRO based upon the Shakopee Police Department's rules, Regulations and General Orders.
3. Either party may terminate this agreement upon a sixty (60) day written notice to the other of such termination. In the event of a termination, any payments due shall be prorated.

L. ENTIRE AGREEMENT; AMENDMENTS

This contract constitutes the entire agreement between the parties and no other agreement prior to this agreement or contemporaneous herewith shall be effective except as expressly set forth or incorporated herein. Any purported amendment shall not be effective unless it shall be set forth in writing and executed by both parties.

IN WITNESS WHEREOF, the parties have caused this agreement to be signed by their duly authorized officers.

Signed, sealed and delivered in the presence of:

SHAKOPEE SCHOOL DISTRICT #720, SHAKOPEE, MINNESOTA



Superintendent



Mayor



City Administrator

Chair, ISD #720 Board of Directors



City Clerk