



West Shore School District **Solar Project** March 9, 2023



Solar Overview

How it Works

Typically, District Partners with McClure through a Power Purchase Agreement (PPA) and finances the balance of the construction cost

McClure Company leverages its corporate tax liability to own/operate/maintain the system for a minimum of 5 years to maximize savings opportunities:

- Investment Tax Credit (30%)
- Federal and State Depreciation
- Utility Act 129 Rebates

After 5 years, the District can purchase the system at Fair Market Value or proceed with McClure owning and operating the system up to 30 Years (life of panel)

- 20- to 30- Year PPA Terms Common
- Hands off Operation for District

Net Annual Dollar Savings to District – no Upfront Capital Needed for Project

Opportunity To Combine With

- Facility Needs To Maximize Savings And Right Sizing Solar Field
- Peak Curtailment Monitoring

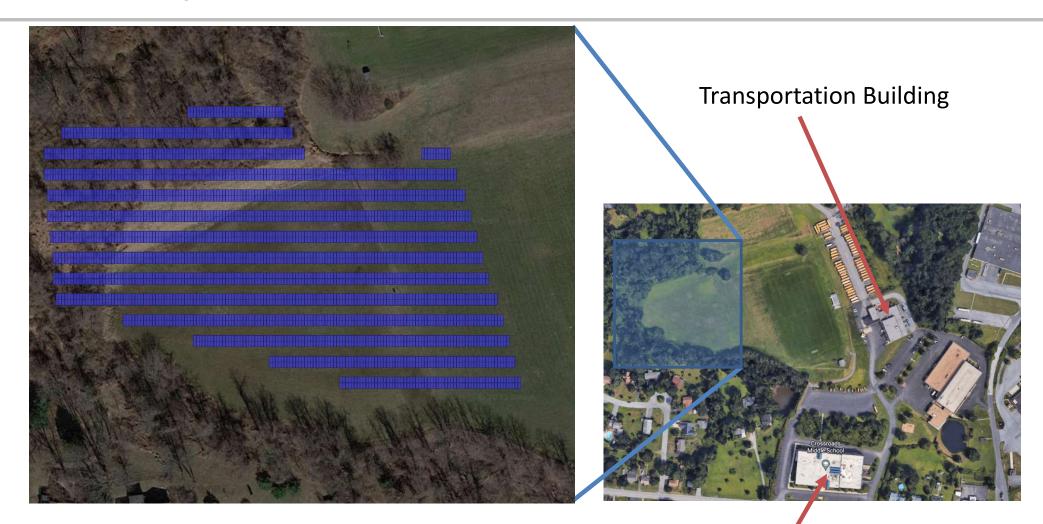


Case Study: Steelton-Highspire School District

- 2.5-Megawatt Solar PV System
- 100% Production of District Energy
- Annual Payments: \$200,000 for first 10 years, approx.
 \$60,000 for remaining 5 = \$2.3M over 15 years
- 20-Year Net Savings: \$2,950,423
- Included Preventative Maintenance and LED Lighting Upgrades



Solar Project Overview



Crossroads Middle School

PPA Term:30 YearsO&M:IncludedSystem Size:1,880 kWPPA Price:\$0.095-0.101/KWH Inverter Replacement:Year 15Generation:2,478,000 kwhPPA Escalator:2%Lease Rate:\$240k-250k Year 1 PPA Cumulative Savings:\$1.4-1.5M



PPA Cashflow

30-Year PPA Cash Flow

Column 1: 30 Year PPA, \$0 down

Column 2: Generation of approximately 65% of Crossroads, Administration/ Transportation, and Red Land's Annual Electricity Usage with 0.5% annual system degradation

Column 3: Existing Electric Saving with a 3% annual escalation (utilizing historical bill escalations of the District)

Column 4: 30-Year Fixed PPA fee, including annual solar maintenance and inverter replacement by year 15. Fee also includes savings from PPL Act 129 rebate, Tax Credits, Accelerated Depreciation, Solar Renewable Energy Credits (SRECs), and Generated Electricity

Column 5: Annual Net Savings to District.

Column 6: Cumulative Savings to **District resulting over 30 Years**

C	Column 1	Column 2	Column 3 C	olumn 4 Column 5		Column 6	
		Annual Net Generation	Electricity Cost	Total Annual Cost	Annual Net Customer Savings		
	Year		Licentery cost		Savings	Cumulative	
		(KWH)	(\$)	(\$)	(\$)	(\$)	
	1	2,478,000	\$245,991	\$245,042	\$949	\$949	
	2	2,465,610	\$252,104	\$248,920	\$3,184	\$4,133	
	3	2,453,282	\$258,369	\$252,863	\$5,506	\$9,640	
	4	2,441,016	\$264,789	\$256,871	\$7,918	\$17,557	
	5	2,428,810	\$271,369	\$260,947	\$10,422	\$27,980	
	6	2,416,666	\$278,113	\$265,091	\$13,022	\$41,002	
	7	2,404,583	\$285,024	\$269,304	\$15,720	\$56,722	
	8	2,392,560	\$292,107	\$273,587	\$18,519	\$75,241	
	9	2,380,597	\$299,366	\$277,943	\$21,422	\$96,664	
	10	2,368,694	\$306,805	\$282,372	\$24,432	\$121,096	
	11	2,356,851	\$314,429	\$286,876	\$27,553	\$148,649	
	12	2,345,067	\$322,242	\$291,456	\$30,787	\$179,436	
	13	2,333,341	\$330,250	\$296,113	\$34,137	\$213,573	
	14	2,321,675	\$338,457	\$300,849	\$37,608	\$251,182	
	15	2,310,066	\$346,867	\$305,665	\$41,203	\$292,384	
	16	2,298,516	\$355,487	\$310,563	\$44,925	\$337,309	Note: Inverter
	17	2,287,023	\$364,321	\$315,544	\$48,777	\$386,086	Replacement
	18	2,275,588	\$373,374	\$320,610	\$52,765	\$438,851	in Year 15
	19	2,264,210	\$382,653	\$325,762	\$56,890	\$495,741	
	20	2,252,889	\$392,162	\$331,003	\$61,159	\$556,900	
	21	2,241,625	\$401,907	\$336,333	\$65,574	\$622,474	
	22	2,230,417	\$411,894	\$341,754	\$70,140	\$692,614	
	23	2,219,265	\$422,130	\$347,269	\$74,861	\$767,475	
	24	2,208,168	\$432,620	\$352,879	\$79,741	\$847,216	
	25	2,197,127	\$443,370	\$358,585	\$84,786	\$932,001	
	26	2,186,142	\$454,388	\$364,389	\$89,999	\$1,022,000	
	27	2,175,211	\$465,680	\$370,294	\$95,386	\$1,117,386	
	28	2,164,335	\$477,252	\$376,301	\$100,951	\$1,218,336	
	29	2,153,513	\$489,112	\$382,413	\$106,699	\$1,325,035	cl: -l -
	30	2,142,746	\$501,266	\$388,630	\$112,636	\$1,437,671	Slide
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Educational Opportunities

Informational Kiosk

- McClure also proposes to install an interactive solar kiosk that will provide real-time production data.
- This information can be tied to curriculum, allowing the project to become a teaching opportunity to the student population it serves.





Sample Solar Kiosk



Sample Solar Generation Data



Additional Related Site Scopes

District Provided

- Repair/Replace Failing Retaining Wall
- Erosion Control/Repaired Fencing Sedimentation Pond
- Site Upgrades at Adjacent Property
 - Demo of structures —
 - Capping/Disconnecting Utilities
 - Site Work for Recreation Space —
 - Access Improvements from Crossroads Middle School
- Maintain Nature Vegetation Barrier with Neighbors







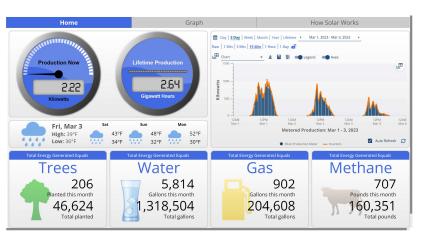
District Provided		stimated	Notes	
		Costs		
Repair/Replace Failing Retaining Wall, Erosion Control & Sedimentation Pond		190,000	Removal of existing wall, regrading, new wall with reinforced concrete and proper drainage; repair	
			apron and basin, remove obstructions from drainage field, regrade as necessary	
Site Upgrades at Adjacent Property				
Demo of structures	\$	115,000	Demolition of (2) structures including foundations and fill as needed	
Capping/Disconnecting Utilities	\$	10,000	Removal of septic systems and electric service and capping well	
Site Work for Recreation Space		TBD	Minimal site work included above to level space and fill demolition, includes seeding	
Access Improvements from Crossroads Middle School		TBD		
Maintain Nature Vegetation Barrier with Neighbors			Layout maintains approx 150' of natural barrier to neighboring properties	



Solar References







McClure Most Recent K-12 Solar System Project Summary										
Project	Project Description	PPA Savings	Additional Incentives							
East Lycoming School District	Year: 2011 Type: 600 kW Ground Mounted Solar Field	McClure/PPL	1) Commonwealth Financing Authority: \$1,000,000 Grant 2) PPL Electric Utility: \$1,400,000 3) American Recovery Investment Act: \$1,000,000							
Elizabethtown Area School District	Year: 2019 Type: 500 kW Ground Mounted Solar Field	30% Investment Tax Credit and Accelerated Depreciation	1) Peak Load Curtailment Monitoring							
Mifflin County School District	Year: 2022 (under construction) Type: 5,800 kW Ground Mounted Solar Field	26% Investment Tax Credit and Accelerated Depreciation	1) Combined with an HVAC renovation							
Steelton-Highspire School District	Year: 2021 Type: 1,600 kW Ground Mounted Solar Field	26% Investment Tax Credit and Accelerated Depreciation	 \$2M project cost that McClure 100% financed Combined with a lighting and preventative maintenance project 							

Next Steps

Engineering Study (4-6 Weeks)

- Preliminary Layout and Design Documents
- Interconnection Application (Approval Timeline 52 weeks)
- Electrical Design
- Miscellaneous Surveys (Property, Deed, etc.)
- Results at April BOE Meeting

Not To Exceed \$40,000

Final PPA (1-2 Weeks)

- Final size, generation, and annual lease
- Utility Cost Savings
- PPA Contract
- Site Lease Contract
- Additional Scopes of Work Contract (ESCO Amendment)
- May BOE Meeting

