

Stewardship Through Renewable Energy and Storage

Option 1

Coopersville Area District Library
+1 (616) 837-6809
director@coopersvillelibrary.org

333 Ottawa St,
Coopersville, MI 49404, USA



Company

Agathon Solar
+1 (616) 607-8373
www.agathonsolar.com
14721 Cleveland Street, Spring Lake, MI, USA
grego@agathonsolar.com
License number 262000069
Electrical license number 6209479

Your solar pro

Greg Oliver
grego@agathonsolar.com
(616) 888-0032



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Utilities

I will contact my utility for current buy back rates and ask how they apply to my account specifically. Utilities vary in the amount of credit that they give for renewable energy sent back to their grid and to what that credit can be applied to. Some utilities allow the credit to accrue, some do not. Utility rates and the application of credits vary. It is incumbent upon the customer to understand their specific rate and how the credits would be applied to them. Agathon Solar attempts to stay current on all rates and the design software here used also updates rates, but how credits are applied cannot always be adequately figured into each utility's rates. Consumers Energy credits are applied to the energy portion of a bill and not to the distribution portion.



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Grid Tied Solar and Battery Systems

I understand that if I do not have a battery installed with my quoted system, that when the grid goes down my solar system will also stop producing power until the grid is restored. Grid tied with battery backup systems are limited for backup loads by the amperage output of the inverter and it is my responsibility to understand my loads and what all I can back up at one time.



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Right to Recission

You are entitled to cancel this agreement without penalty or obligation for any reason within 3 business days from the date you signed this agreement. Any payments made by you shall be returned within 10 business days following receipt by the seller of your cancellation notice. You may mail or deliver a written notice to the seller. If mailed, it must be postmarked before midnight of the third business day after you sign the agreement. Deliver or mail the notice to Agathon Solar LLC, 14721 Cleveland Street, Spring Lake, MI. Last cancellation date is midnight of the third after the date of the contract being signed.

About us

We have a diverse team with decades of experience in renewable energy and the construction and electrical trades. Our diversity finds uniformity in our desire to impact our communities through renewable energy. We value not just what we do, but how we do it.

We service the state of Michigan in the residential, agricultural, and light commercial markets. We excel in providing a custom designed energy solution based upon interaction with the client and a wholistic approach to design and product selection. Our solutions encompass off-grid and grid-tied systems with generator integration for residential, commercial, and agricultural applicaitons..

Our philosophy is to do good to our clients by educating them and empowering them to exercise stewardship through our renewable energy solutions. We are local people, providing great service, and at a reasonable price.

<https://youtu.be/25gYrn4gPx0>

<https://youtu.be/ux0n1lY7J3o>

Our certifications

Industry standard and manufacturer training is essential for a safe and long lasting renewable energy system.

Agathon Solar holds a number of certifications in the renewable energy field.



Solar Details



System size
27.47 kW DC

Panels
SIL-410 BG

Inverters
IQ7A-72-M-US [240V]

CEC-AC rating
26.646 kW AC

Estimated First Year Production
33,773 kWh

Consumption Offset
49%

Array details

Panel: SIL-410 BG

Quantity: 6 Watts: 410 Azimuth: 238° (SW) Tilt: 18° Mounting: flush

Panel: SIL-410 BG

Quantity: 14 Watts: 410 Azimuth: 238° (SW) Tilt: 18° Mounting: flush

Panel: SIL-410 BG

Quantity: 20 Watts: 410 Azimuth: 239° (SW) Tilt: 18° Mounting: flush

Panel: SIL-410 BG

Quantity: 10 Watts: 410 Azimuth: 146° (SE) Tilt: 18° Mounting: flush

Array details

Panel: SIL-410 BG

Quantity: 11	Watts: 410	Azimuth: 144° (SE)	Tilt: 18°	Mounting: flush
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Panel: SIL-410 BG

Quantity: 6	Watts: 410	Azimuth: 232° (SW)	Tilt: 18°	Mounting: flush
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Buy Option

Old utility bill	\$881.55/month
Estimated new utility bill	\$448.70/month
Estimated bill difference	\$432.85/month

* Actual new utility bill may vary if there are changes in utility rates, adjustments to energy usage, or modifications to the consumption profile.

Pricing

	Price	Total price
Base Price for Solar Based on a 27.47 kW installation	\$81,036.50	
Gross Cost	\$81,036.50	\$81,036.50
Cost after rebates & incentives*	\$81,036.50	\$81,036.50

Note:** Not everyone is eligible for credits, incentives, or rebates or can fully use them. Please consult your tax professional or legal professional for further information. *** Incentives are subject to change. The actual amount can be higher or lower than what is quoted, and may not stay at a fixed rate over time. It can also change based on the tax bracket you are in.

Materials

Silfab Solar Inc. - SIL-410 BG

Quantity **67**
 Type: **mono**
 Wattage: **410 Watts**

[Download](#)

Enphase Energy Inc. - IQ7A-72-M-US [240V]

Quantity **67**
 Type: **micro**

[Download](#)

Racks

Lite Rail

1

Balance of system included

Previous projects



50kWh LiFePO4 / Sol-Ark 12kW

A year ago we installed a 9 kW ground mounted solar system with an SMA inverter. This year we replaced the SMA with a Sol-Ark 12 kW and added 50 kWh of LiFePO4 battery backup. This system is EMP hardened for the battery bank, the inverter, and the main electrical panel by EMP Shield.

13kW Solar and 37kWh Battery in Hudsonville

This home has 13kW of solar on two structures, is EMP hardened, and has two 18.5kWh Fortress e-Vaults. As a first in Michigan, solar skins were applied to the panels for aesthetic enhancement.



14.4kW Grand Rapids Ornamental Canopy

This 14.4kW system at Pinnacle Construction Group has two SMA 7.7kW inverters. The ornamental structure was custom mounted to using Ironridge. The site also has two electric vehicle charging stations.



Previous projects



26.4kW Whitehall Bifacial Ground Mount

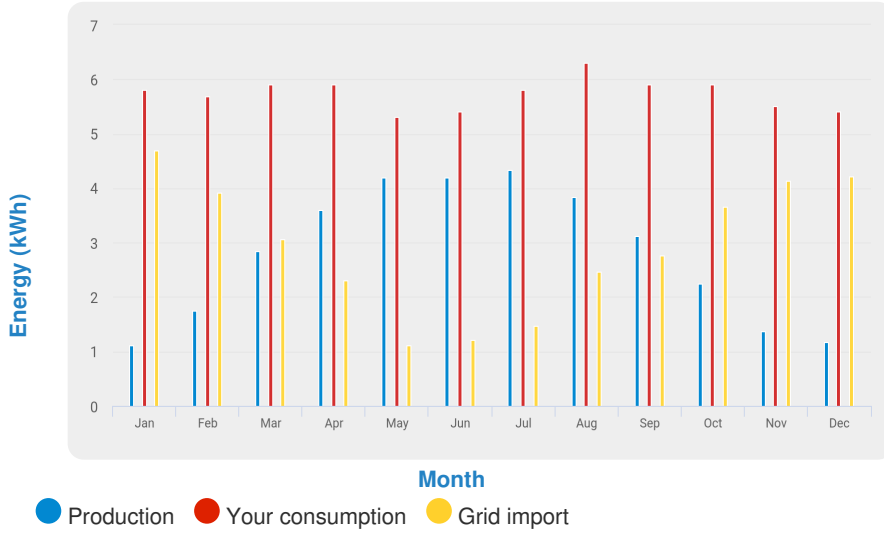
This ground mounted solar system has 440 W Longi Bifacial solar panels and is also battery ready. The bifacial panel will give you about 8% more production due to reflection off of the snow during the winter. This energy strategy encompassed the customer's desire to add a battery next year. Thus, we installed a SolArk 12kW inverter and have it ready to take a battery. Along with it is a 15.0 kW Fronius grid tied inverter. This was installed about 150' from the customer's home.

4.9kW Single Axis Tracking in South Haven

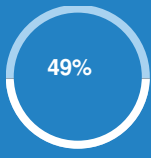
This 4.9 kW system has twelve 410 watt bifacial panels, which give about 8% more production due to reflection off of the snow on the back side of the panel. The manual tilt is moved 5 times a year and will yield about another 10% of extra production. We also installed this system "battery ready" with the Sol-Ark inverter. This way the customer can add batteries later when ready. The inverter functions as a grid tied inverter now.



Usage breakdown



Consumption Offset



49%

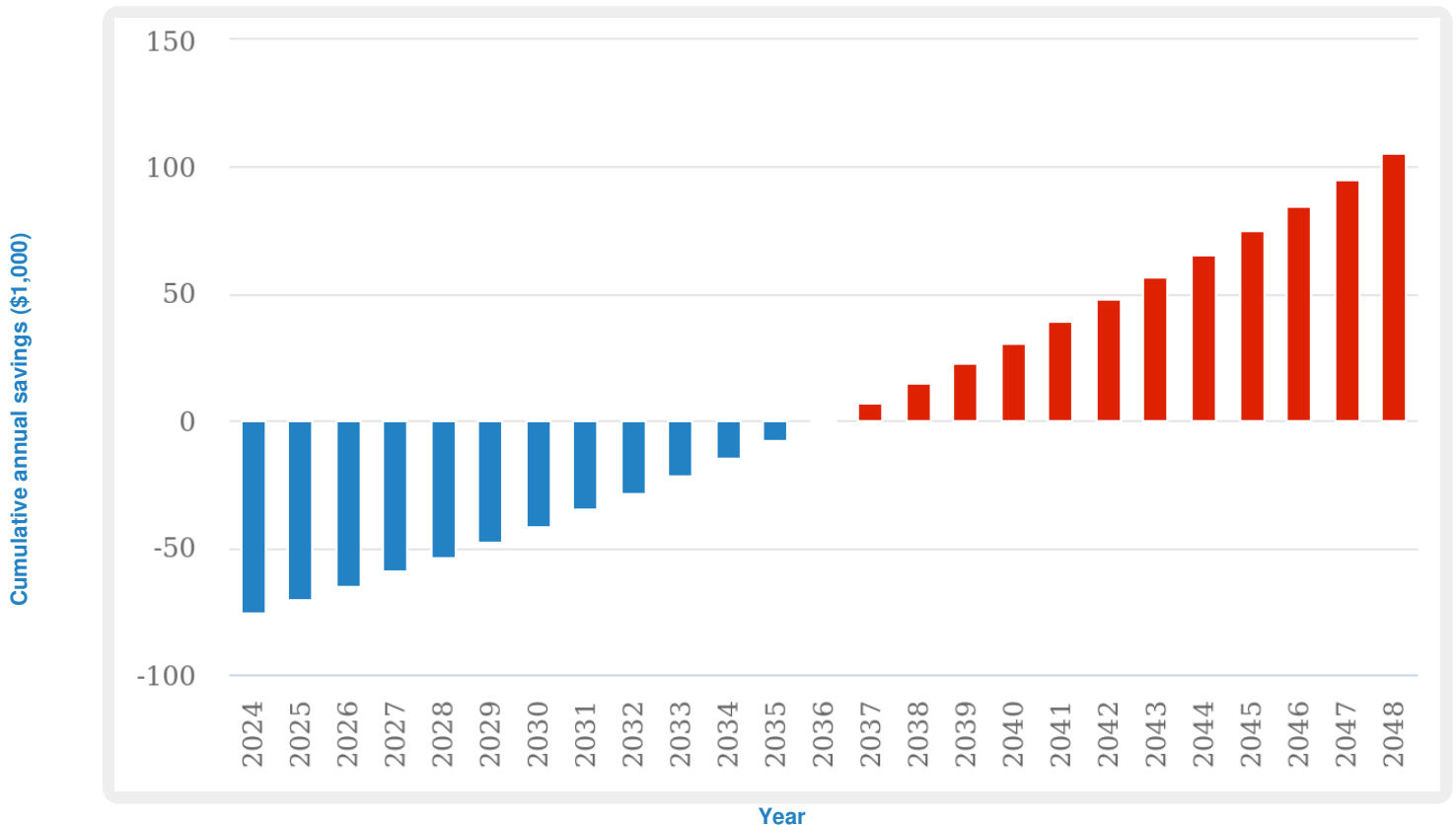
Estimated First Year Consumption

68,781.8 kWh

Estimated First Year Production

33,772.5 kWh

Estimated yearly cumulative savings



Assuming a 3.40% escalation rate on utility rate

Net savings

⊕ Utility savings	\$186,278.80
⊕ Incentive revenues	\$0.00
⊕ Tax benefits	\$0.00
⊖ Operating cost	\$0.00
⊖ Financial payments	\$81,036.50

 Net savings	\$105,242.30
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Payback period
13.08 years

Return on investment (ROI)
5% per year

Levelised energy costs
\$0.10

Month-by-month details

Month (2024)	Utility savings	Incentive revenues	Operating cost	Financial payments	Tax benefits	Monthly savings
January	\$171.04	\$0.00	\$0.00	\$81,036.50	\$0.00	-\$80,865.46
February	\$270.49	\$0.00	\$0.00	\$0.00	\$0.00	\$270.49
March	\$435.96	\$0.00	\$0.00	\$0.00	\$0.00	\$435.96
April	\$553.06	\$0.00	\$0.00	\$0.00	\$0.00	\$553.06
May	\$644.49	\$0.00	\$0.00	\$0.00	\$0.00	\$644.49
June	\$644.63	\$0.00	\$0.00	\$0.00	\$0.00	\$644.63
July	\$665.85	\$0.00	\$0.00	\$0.00	\$0.00	\$665.85
August	\$590.59	\$0.00	\$0.00	\$0.00	\$0.00	\$590.59
September	\$480.97	\$0.00	\$0.00	\$0.00	\$0.00	\$480.97
October	\$344.23	\$0.00	\$0.00	\$0.00	\$0.00	\$344.23
November	\$211.08	\$0.00	\$0.00	\$0.00	\$0.00	\$211.08
December	\$181.84	\$0.00	\$0.00	\$0.00	\$0.00	\$181.84
Total	\$5,194.22	\$0.00	\$0.00	\$81,036.50	\$0.00	-\$75,842.28

Production and Savings estimates are based on a period of 25 years by default. The length of the default project life can be updated for all projects by visiting the [Your Pricing](#) section in the Company settings. To change the project life for this project, visit [Utility](#) section under Settings button at the top edge of this page.

Estimated production assumes equipment is maintained and free from damage or other impediments.

Estimated projected usage is based on your current utility bill.

Year-by-year details

Year	Utility savings	Incentive revenues	Operating cost	Financial payments	Tax benefits	Annual savings
2024	\$5,194.22	\$0.00	\$0.00	\$81,036.50	\$0.00	-\$75,842.28
2025	\$5,335.35	\$0.00	\$0.00	\$0.00	\$0.00	\$5,335.35
2026	\$5,489.17	\$0.00	\$0.00	\$0.00	\$0.00	\$5,489.17
2027	\$5,647.42	\$0.00	\$0.00	\$0.00	\$0.00	\$5,647.42
2028	\$5,819.62	\$0.00	\$0.00	\$0.00	\$0.00	\$5,819.62
2029	\$5,977.74	\$0.00	\$0.00	\$0.00	\$0.00	\$5,977.74
2030	\$6,150.08	\$0.00	\$0.00	\$0.00	\$0.00	\$6,150.08
2031	\$6,327.39	\$0.00	\$0.00	\$0.00	\$0.00	\$6,327.39
2032	\$6,520.32	\$0.00	\$0.00	\$0.00	\$0.00	\$6,520.32
2033	\$6,697.48	\$0.00	\$0.00	\$0.00	\$0.00	\$6,697.48
2034-2038	\$36,509.30	\$0.00	\$0.00	\$0.00	\$0.00	\$36,509.30
2039-2043	\$42,084.07	\$0.00	\$0.00	\$0.00	\$0.00	\$42,084.07
2044-2048	\$48,526.65	\$0.00	\$0.00	\$0.00	\$0.00	\$48,526.65
Total	\$186,278.80	\$0.00	\$0.00	\$81,036.50	\$0.00	\$105,242.30

Project timeline

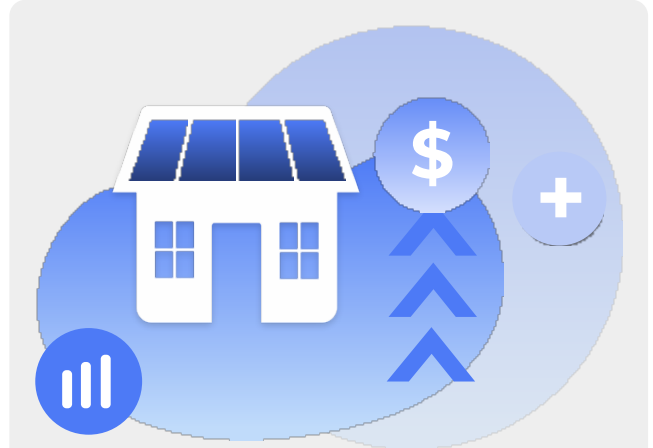
Step	Details	Charge
Contract Signature	Job file opened/centralize all information	\$40,518.25 (50%)
Material Procurement, Engineering, Site Assessment	Follow up site visit (if needed), order lead time materials, begin necessary engineering	
Permits and Applications	Zoning (if required), building, and electrical permits	
Mobilization, Permits in Hand, Work Commenced	Materials to site, installation commences	\$32,414.60 (40%)
Inspections / Commissioning	Inspections completed, commission system	\$8,103.65 (10%)
Monitoring / Interconnection	Provide access to system, walk through operation (interconnection may still be in progress)	

Benefits of solar



Control your energy costs

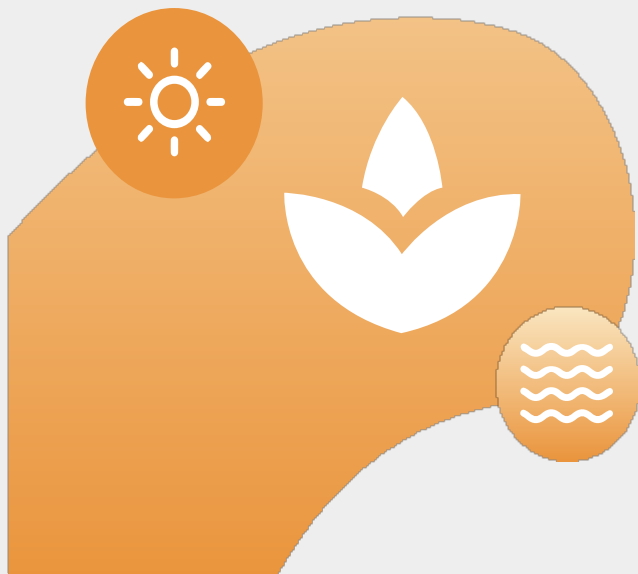
As utility prices continue to climb you will enjoy predictable energy costs for years to come.







Increase the value of your property

A number of real estate studies find that solar is a building improvement that may increase the market value of your property.
Source: <https://www.nrel.gov/docs/fy08osti/42733.pdf>

Benefit your environment



 65,445 Gallons of gasoline saved	 24,749 Trash bags of waste recycled
 9,693 Tree seedlings grown for 10 years	 640,538 Pounds of coal saved

Source: United States Environmental Protection Agency



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Signature

I hereby agree to move forward with the solar project as described above and agree to the Terms and Conditions below of the contract provided by the installer Agathon Solar joined to this proposal.

Coopersville Area District Library

Date of Signature (MM-DD-YYYY)

Greg Oliver

Date of Signature (MM-DD-YYYY)



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Arbitration

Any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by arbitration administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules and judgment on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. Claims shall be heard by a single arbitrator, unless the claim amount exceeds \$10000, in which case the dispute shall be heard by a panel of three arbitrators. Within 15 days after the commencement of arbitration, each party shall select one person to act as arbitrator and the two selected shall select a third arbitrator within ten days of their appointment. If the arbitrators selected by the parties are unable or fail to agree upon the third arbitrator, the third arbitrator shall be selected by the American Arbitration Association. The place of arbitration shall be at a mutually agreed upon location by both parties, within Michigan. Each party will, upon written request of the other party, promptly provide the other with copies of all relevant documents. There shall be no other discovery allowed. In making determinations regarding the scope of exchange of electronic information, the arbitrator(s) and the parties agree to be guided by The Sedona Principles, Third Edition: Best Practices, Recommendations & Principles for Addressing Electronic Document Production. The arbitration will be based on the submission of documents and there shall be no in-person or oral hearing. Time is of the essence for any arbitration under this agreement and arbitration hearings shall take place within 90 days of filing and awards rendered within 120 days. Arbitrator(s) shall agree to these limits prior to accepting appointment. The arbitrator(s) shall not award consequential damages in any arbitration initiated under this section. Each party shall bear its own costs and expenses and an equal share of the arbitrators' and administrative fees of arbitration. The award of the arbitrators shall be accompanied by a reasoned opinion. Except as may be required by law, neither a party nor an arbitrator may disclose the existence, content, or results of any arbitration hereunder without the prior written consent of both parties. The parties agree that failure or refusal of a party to pay its required share of the deposits for arbitrator compensation or administrative charges shall constitute a waiver by that party to present evidence or cross-examine witness. In such event, the other party shall be required to present evidence and legal argument as the arbitrator(s) may require for the making of an award. Such waiver shall not allow for a default judgment against the non-paying party in the absence of evidence presented as provided for above. Notwithstanding any language to the contrary in the contract documents, the parties hereby agree: that the Underlying Award may be appealed pursuant to the AAA's Optional Appellate Arbitration Rules ("Appellate Rules"); that the Underlying Award rendered by the arbitrator(s) shall, at a minimum, be a reasoned award; and that the Underlying Award shall not be considered final until after the time for filing the notice of appeal pursuant to the Appellate Rules has expired. Appeals must be initiated within thirty (30) days of receipt of an Underlying Award, as defined by Rule A-3 of the Appellate Rules, by filing a Notice of Appeal with any AAA office. Following the appeal process the decision rendered by the appeal tribunal may be entered in any court having jurisdiction thereof.



Terms & conditions

Agathon Solar

Terms and Conditions

General Terms & Conditions for solar systems Installation

performed by Agathon Solar:

1. Installations must be completed in accordance with all laws, codes, and other requirements applicable under federal, state and local authority (e.g., permits, inspections)
 2. Agathon Solar will require the necessary client information to proceed with mandatory government and State applications.
 3. Agathon Solar and its staff will require access to your property to proceed with initial project assessment, construction, inspection and required maintenance. The client will be contacted prior to Agathon Solar visits and will need to arrange property access allowing Agathon Solar to fulfill its portion of the agreement. Agathon Solar will require all necessary forms filled and full client cooperation to complete its part of the contract.
 4. We recommend the client to seek the appropriate consultation concerning any tax liabilities that may be associated with the receipt of the rebate.
 5. Agathon Solar, its parents, subsidiaries, affiliates, officers, employees, contractors, and agents:
 - a. Are not responsible for any tax liabilities that a client may incur.
 - b. Assume no responsibility for the performance of the equipment or equipment warranty,
 - c. Do not endorse, guarantee or warrant any particular brand, manufacturer or third-party services.
 6. The client hereby agrees to indemnify, defend, and hold harmless, Agathon Solar, its parents, subsidiaries, affiliates, officers, employees, contractors, and agents from any and all liability associated with this program/project except for the labor warranties provided.
 2. Please refer to product spec sheet and online warranty information for details. Manufacturer is responsible for all solar component's warranties, Agathon Solar is responsible for all labor warranties unless stipulated otherwise. Agathon Solar will pursue the manufacturers if a component fails under warranty and provide 4 hours labor free of charge.
 - a. 25 year limited power output warranty on solar panels
 - b. 10 year limited product warranty on solar panels
 - c. 10 year limited warranty on string inverter
 - d. 25 year limited warranty on micro-inverters
 - e. 25 year limited warranty on optimizers
 - f. 20 year limited warranty on racking system
 - g. 10 year warranty on labor assuming customer does not modify or alter any element of system in any way
7. No amount of energy savings, energy production or income generation are guaranteed as a result of the purchase and installation of eligible equipment.
8. Battery system (off grid or grid tied) design is based upon information provided by the customer and the performance thereof is dependent upon said information, a consistent customer usage profile, and weather. Agathon Solar does not guarantee any specific performance and customer is required to perform a load calculation and submit that to Agathon Solar. It is the customer's responsibility to insure that batteries are stored and operated within manufacturer guidelines.
9. Agathon Solar (unless otherwise stipulated) is responsible for the utility interconnection and application process, from initiation through completion unless mentioned otherwise by a representative of Agathon Solar. The client is responsible for ensuring that the guidelines, terms and conditions, requirements, and program processes are adhered to.
10. It is the responsibility of Agathon Solar to ensure that all appropriate permits (e.g., local, state) have been obtained including ensuring that Deed Restrictions or Homeowner Association Restrictions do not prohibit the installation of the proposed PV system.
11. Agathon Solar (or its subcontractors) shall maintain workers compensation insurance in amounts required by law. Customer's existing property insurance may provide coverage for loss or damage to the PV System during construction from various causes, including but not limited to, vandalism and theft. Contractor recommends that Customer confer with its insurance broker to discuss and retain such coverage.
12. Federal, State, Local, Utility program guidelines and rebate levels are subject to change without notice, and may be terminated by

12. Federal, State, Local, Utility program guidelines and rebate levels are subject to change without notice, and may be terminated by executive, legislative or regulatory action at any time. Utility rates are also subject to change. Agathon Solar is not held accountable for loss of rebate, income, savings, or delays resulting from such situation.

13. Prior to final pricing, Agathon Solar reserves the right to conduct a site visit/audit to verify that all calculations were exact. Materials offered are subject to change without notice. Quality and efficiency offered will remain equivalent or better.

14. All payments must be made according to the scheduled agreement. Personal Check, Wire Transfer, all major Credit/Debit Cards (only for initial deposit), and Bankers Draft are all acceptable methods of payment. All goods remain the property of the Agathon Solar until final payment has been completed. Payments outstanding beyond their respective due dates will incur interest at the rate of 2% on the outstanding balance, until the balance is paid in full and final settlement has been reached. Equipment may be rendered inoperable until all payments have been made. Minor system issues are not reason for non-payment. If all equipment is on site, awaiting replacement, or out for replacement under manufacturer warranty processes, then all payments are required to be made. Minor adjustments to inverter / battery systems and percentages may be on-going and shall not hinder payments being made on time.

15. Agathon Solar does not, will not, and cannot hold responsibilities in relation to any form of damage caused by accumulated snow and/or ice and/or hail on or around the solar array or its penetrations to any surface.

16. Agathon Solar is not responsible for any underground lines (sprinkler etc.) that may be damaged unless the customer exposes them prior to installation.

17. The timeline proposed in this offer cannot be guaranteed by Agathon Solar and Agathon Solar cannot be held accountable for any delays resulting from situations not under the control of Agathon Solar (rain, snow, application approval delays etc.)

18. Agathon Solar will not sell, share, or rent your personal information to any third party, or use your e-mail address for unsolicited mail. All e-mail messages sent by Agathon Solar will pertain solely to the provision of agreed services and products. Any information on pricing and procedures will remain confidential between the client and Agathon Solar and are not to be shared with other companies.

19. Wi-Fi must be on site for monitoring, signal extenders at customer's expense may be required. Agathon Solar is not responsible for the cost of utility upgrades / changes, nor electrical panel / infrastructure upgrades / changes unless otherwise agreed to contractually.

20. By signing electronically, and upon doing so, client agrees to all program requirements including all terms and conditions of Agathon Solar and both parties are executing this offer in good faith.

Additional information specific to your solar project:

Client nameCoopersville Area District Library

Address333 Ottawa St, Coopersville, MI 49404, USA

Solar Panels:

- Manufacturer: Silfab Solar Inc.
- Model: SIL-410 BG
- Watts: 410
- Count: 6

- Manufacturer: Silfab Solar Inc.
- Model: SIL-410 BG
- Watts: 410
- Count: 14

- Manufacturer: Silfab Solar Inc.
- Model: SIL-410 BG
- Watts: 410
- Count: 20

- Manufacturer: Silfab Solar Inc.
- Model: SIL-410 BG
- Watts: 410
- Count: 10

- Manufacturer: Silfab Solar Inc.
- Model: SIL-410 BG
- Watts: 410
- Count: 11

- Manufacturer: Silfab Solar Inc.
- Model: SIL-410 BG
- Watts: 410
- Count: 6

Inverters:

- Name: Enphase Energy Inc. - IQ7A-72-M-US [240V]
- Efficiency: 97.00%

Panels:

- Name: Silfab Solar Inc. - SIL-410 BG
- Efficiency: 21.40%

Racks:

- Name: Quick Mount PV - Lite Rail

Pricing & Payment information:

Gross price of system	\$81,036.50
Cost after rebates and incentives:	\$81,036.50

Project specs:

- System size: 27.47 kW
- CEC-AC rating: 26.646 kW
- Estimated First Year Production: 33,773 kWh AC
- Consumption Offset: 49%