

1. Climate Action Committee Meeting Materials

Documents:

[251203 YORK CAC AGENDA .PDF](#)
[CAC MEETING MINUTES_DRAFT_11-05-25.PDF](#)
[REVISION ENERGY.PDF](#)
[STATE AND LOCAL WILDFIRE MANAGEMENT RESOURCES_11-13-25.PDF](#)
[TRU ENTERPRISES.PDF](#)
[VH ENERGY.PDF](#)

York Climate Action Committee

12/03/25 Wed. 6:00 PM – 8:00 PM EST

Location:

<https://us02web.zoom.us/j/86473808108?pwd=GpVb8j5ZasFucS6VkmSQMlqXPelqYv.1>

Meeting ID: 864 7380 8108

Passcode: 151653

Meeting Agenda

6:00 – Call to Order, Attendance

1. Meeting Minutes
 - a. August 13th, 2025
 - b. November 5th, 2025
2. Wildfire prevention resources
3. CAC Priorities:
 - a. Renewable Energy & Solar Projects
 - i. York Village Fire solar bids
 - ii. Community Center Building solar follow-up
 - iii. Police Department
 - b. York Schools & Public Buildings
 - c. Leadership and Capacity
 - i. CAC roles and vacancies
4. Future Agendas, New and Other Business
5. Public Comment

8:00 – Adjourn

Meeting Minutes

York Maine Climate Action Committee

Date and Time

November 5, 2025, 6:00 pm

Location

Via Zoom

Attendees

Members:

- Cornelius Murphy, Chair
- Roy Sieber, Secretary
- Wayne Boardman

Town Staff

- Taylor Maguire, Environmental Planner
- Peter Murray, Director, Parks and Recreation

Public

- Susan Covino
- Carol Libby, representing York Ready for Climate Action (YRCA)
- Barb Poulin

Call to Order

Cornelius Murphy called the Climate Action Committee (CAC) to order at 6:03 pm. A quorum was established, three members being present.

Approval of Minutes

The committee unanimously approved the October meeting minutes.

Review of the August meeting minutes was deferred to a future meeting.

Agenda Items

Wildfire Prevention

Taylor Maguire reported that Kittery is interested in partnering with York on a Community Action Grant related to wildfire resilience.

Taylor also discussed wildfire management with the York Fire Chief. His interest is primarily related to wildfire response through early detection, potentially using technology such as drones or cameras.

Taylor contacted the York Water District regarding wildfire management. They do not have a fire management plan; the water district primarily relies on fire response.

Roy Sieber has not yet had a chance to research existing plans at county and state-level agencies (e.g. Forest Service, Fire Marshall); he will follow up.

Community Action Grants

The CAC discussed other potential ideas that would be candidates for a Community Action Grant application:

- Taylor discussed potential grants with the Executive Director of YRCA. No specific ideas have yet been developed.
- Cornelius Murphy discussed a potential project in partnership with Historic New England at the Sayward Wheeler House to implement a marsh resiliency project at their site. The project could be a living shoreline demonstration on the York River. Discussion centered on whether there is sufficient marsh area at that location to warrant a project. CAC members noted that the area is well travelled and visible to the public on the Fisherman's Walk.

The CAC will continue to explore potential community action grant ideas.

Community Center Building Solar Power Potential

Peter Murray briefed the CAC on the goals of the Community Center Building Community to develop an energy efficient project and incorporate solar power if possible. Peter asked for support and recommendations from the CAC to help evaluate possible solar power approaches, including what the costs and benefits would be.

Roy Sieber indicated he had begun to review some of the technical information provided by the architect, and it seems like a cost-effective solar power approach is feasible. The CAC agreed to more fully evaluate solar power potential and prepare a draft recommendation. Roy will prepare an initial draft for consideration by the full CAC. Peter indicated that it would be most helpful to have CAC input by mid-January 2026.

Solar power at the Community Center could be a candidate for a Community Action Grant (up to \$75,000)

Hannaford Road Police Station

Maine Solar Solutions recommended waiting until there is some electricity consumption data available once the HVAC renovation is complete before evaluating solar power potential.

Gerry Runte provided the name of a consultant that can help evaluate a battery peak load shaving approach. However, we need to obtain 15-minute interval electricity consumption data to enable this evaluation. Taylor and Cornelius are working to obtain data from CMP.

School Department

Cornelius met with Timothy Doak, York Schools Superintendent, to discuss possible ways for the CAC to collaborate with the schools department. The department could use help with two potential projects:

- Upgrading the York High School Kitchen where much of the kitchen equipment is 50 years old.
- Retrofitting the middle school to maintain maximum comfortable temperatures in the shoulder seasons (potential for duct work or heat pumps).

Leadership and Capacity

Wayne Boardman participated in the recent Capital Planning Committee meetings focused on the FY 2027-2031 capital budget. Several items presented at those meetings are relevant to the Climate Action Plan:

- The Department of Public Works (DPW) plans to pave and widen sections of Mountain Road and Nubble Road, making those sections safer for bikers and pedestrians.
- DPW plans to purchase a sidewalk snow removal machine to improve sidewalk pedestrian safety in winter.
- Wayne advocated for electric vehicles options for upcoming planned vehicle purchases by the Parks and Recreation Department and Code Enforcement Department.
- Wayne recommended the schools department consider heat pumps when trying to achieve maximum comfortable temperatures at the High School.

Village Fire Station Solar

Bids have been received and need to be evaluated by town staff.

Public Comments

Carol Libby indicated YRCA is looking for a Town partner to jointly sponsor a Climate Action Fair at the high school on May 2, 2026. CAC members discussed the positive, awareness raising opportunities associated with the fair.

Cornelius Murphy made a motion for “The York Climate Action Committee to cosponsor with YRCA the Climate Action Fair at the York High School in May 2026”. Wayne Boardman seconded the motion.

The motion passed unanimously.

There were no other public comments.

Adjournment

The meeting was adjourned at 7:56 pm.

Prepared by:

Roy Sieber, Secretary



Taylor Maguire
Environmental Planner
Town of York
186 York Street
York ME 03909

Taylor

ReVision Energy is pleased to provide this proposal in response to the Town's RFP for a solar system at the Village Fire Station. Our design meets his RFP's stated goal of 35,000 kWh of generation in year one. The system will utilize a behind-the-meter interconnection allowing the fire station to reduce their kWh consumption on real time and benefit from the kWh net energy billing program.

The system is a 31.24 KW dc array that includes 71 Silfab 440 watt modules and 71 Enphase micro-inverters. It is projected to produce 36,072 kWhs in year one. Because the system's 27.24 ac size, the installation will require a CMP transformer upgrade of which the estimated cost will be \$3200 and this allowance is included in our project costs.

Our system designers and engineers have significant experience with installation on buildings that have public safety antennas and systems. We have chosen the more conservative design approach which includes Enphase Micro-inverters and ferrite toroids (FT) on each panel. While the FTs increases the cost of the system ~\$2,900, it should further protect against any radio interference.

The attached Project Summary reflects the net savings and includes the cost of an annual Operations and Maintenance contract for the life of the system. While this is optional, we highly recommend its inclusion. Also attached is the Helioscope production report that includes several key data points and a monthly production estimate.

Having install for than 20,000 clean energy systems over the past 20+ years ReVision has earned the designation as the #1 solar installer in Northern New England for the past several years. I believe that this experience and the fact that we are one of the few solar companies with a dedicated Maintenance and Operations team which positions us as the best partner for the Town of York for this project.

As designed the project will qualify for the 30% "direct pay" option, which in essence is like a 30% rebate to the Town. If we can secure equipment that will also



qualify for the additional 10% ITC adder we will present the option and any impact it may have on the project cost.

Taylor, please feel free to call or email me if you have any questions.

Thanks for your consideration,

John Dunster
P- (978) 384-0651
jdunster@revisionenergy.com



REVISION ENERGY

Below are some examples of rooftop projects with buildings that have public safety and or communication antennas. These facilities have not reported any interference issues.

York Beach Fire Station



Windham Fire Station



Isleboro Fire Station



Stratham Police Department



Hanove Police and Fire Station



- Hanover Public Works (public safety comms; not sure re: antennas)
- Stratham Police
- Keene Police and Public Works
- Nashua Lake St Fire
- Nashua Public Works
- Nashua Transit (public safety comms; not sure re: antennas)
- Nottingham Fire

Town of York

Fire Station Solar Proposal Project Summary

For Contract Proposal Date

October 24, 2025

Solar Design Summary

Project Size (DC)	31.24 kW
Project Size (AC)	27.264 kW
Annual Generation (kWh)	36,073

Investment Summary

Turnkey System Cost (incl. Allowances)	\$111,472
Permitting & Site Preparation Allowance	\$500
Utility Applications & Upgrades Allowance	\$5,967
Average Annual O&M cost (Recommended)	\$1,500
Investment Tax Credit	-\$33,442
Depreciation Benefits	\$0
Rebate/Grant (Estimate)	\$0
Net investment	\$78,030

Pricing guaranteed for 15 days

Engineer's Rendering



Main Street (Satellite Data)

Project Savings/Revenue

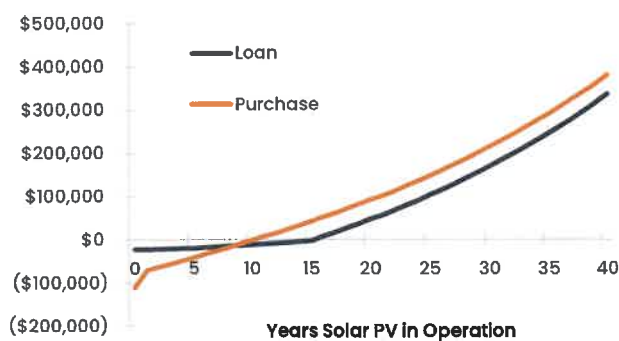
Energy Savings (Year 1)	\$7,539
Renewable Energy Credits (Year 1)	\$1,082
Simple Payback (Years)*	10
Purchase 25-Year Internal Rate of Return*	9.09%
25-Year Net Savings (Warranty Period)	\$148,024
40-Year Net Savings (Commercial Lifespan)	\$379,660

*Analysis assumes energy savings invested back into company (untaxed)

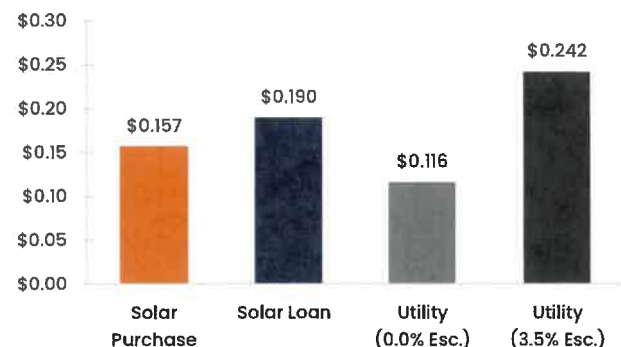
Environmental Benefits

Annual CO ₂ e Offset (pounds)	34,991
Equivalent To...	
Gallons of Gasoline Not Burned	1,786
Passenger Cars Removed From the Road	3
Pounds of Coal Not Burned	17,487
Tons of Waste Recycled	5

Solar Savings vs. Utility



Levelized Cost of Energy (\$/kWh, 40 Yr.)



REVISION ENERGY
An Employee-Owned Solar Company



20251014 Design for RFP (Enphase) York Village Fire Station, 266 York St., York, ME 03909

Report

Project Name York Village Fire Station
Project Address 266 York St., York, ME 03909
Prepared By Jillian Hoyt
jhoyt@revisionenergy.com

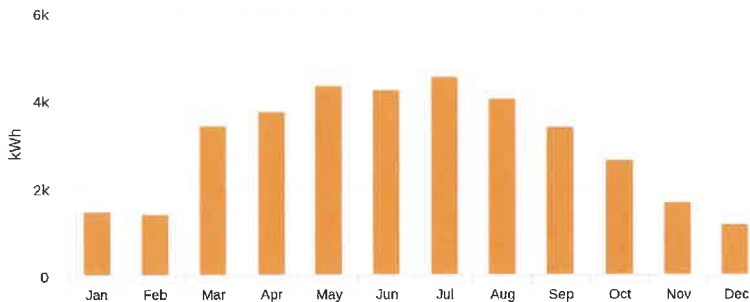
System Metrics

Design 20251014 Design for RFP (Enphase)
Module DC Nameplate 31.24 kW
Inverter AC Nameplate 27.26 kW
Load Ratio: 1.15
Annual Production 36.07 MWh
Performance Ratio 73.6%
kWh/kWp 1,154.7
Weather Dataset TMY, PORTLAND, NSRDB (tmy2)
Simulator Version 5a8140c56d-7092f1f585-d729296f19-5457387107

Project Location

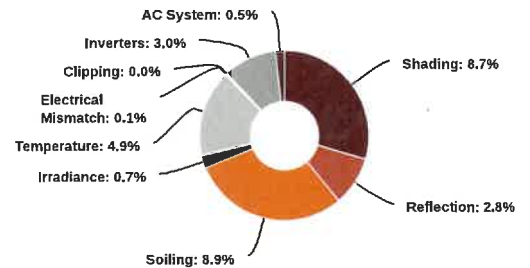


Monthly Production



Month	GHI (kWh/m ²)	POA (kWh/m ²)	Shaded (kWh/m ²)	Nameplate (kWh)	Grid (kWh)
January	58.5	78.4	68.5	1,483.3	1,475.1
February	83.8	99.8	89.0	1,406.4	1,395.5
March	123.4	138.4	125.3	3,601.5	3,414.4
April	144.9	151.3	139.1	4,062.4	3,736.1
May	173.8	176.0	163.7	4,783.1	4,336.3
June	180.9	177.5	165.1	4,826.6	4,247.5
July	190.5	191.5	178.8	5,233.3	4,528.5
August	165.2	170.8	157.9	4,620.3	4,040.2
September	127.9	143.2	130.4	3,812.0	3,409.4
October	90.4	109.4	98.4	2,862.5	2,646.3
November	54.8	69.4	60.7	1,754.7	1,674.3
December	46.7	63.6	55.2	1,179.4	1,169.5

Sources of System Loss





⚡ Annual Production

	Description	Output	% Delta
Irradiance (kWh/m ²)	Annual Global Horizontal Irradiance	1,440.9	
	POA Irradiance	1,569.2	8.9%
	Shaded Irradiance	1,432.1	-8.7%
	Irradiance after Reflection	1,392.1	-2.8%
	Irradiance after Soiling	1,268.2	-8.9%
	Total Collector Irradiance	1,268.2	0.0%
Energy (kWh)	Nameplate	39,625.6	
	Output at Irradiance Levels	39,347.2	-0.7%
	Output at Cell Temperature Derate	37,413.4	-4.9%
	Output after Electrical Mismatch	37,389.3	-0.1%
	Optimal DC Output	37,389.3	0.0%
	Constrained DC Output	37,386.1	0.0%
	Inverter Output	36,262.3	-3.0%
	Energy to Grid	36,073.1	-0.5%
Temperature Metrics			
	Avg. Operating Ambient Temp	10.7 °C	
	Avg. Operating Cell Temp	23.7 °C	
Simulation Metrics			
	Operating Hours	4719	
	Solved Hours	4719	

☁ Condition Set

Description	Condition Set - 25 degree tilt, tmy2 Portland											
Weather Dataset	TMY, PORTLAND, NSRDB (tmy2)											
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				
	East-West		-3.56		-0.075			3°C				
	Carport		-3.56		-0.075			3°C				
Soiling (%)	J	F	M	A	M	J	J	A	S	O	N	D
	27.9	47.7	5.4	4	4	4	4	4	4	4	4	28.8
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.5% to 2.5%											
AC System Derate	2.00%											
Trackers	Maximum Angle						Backtracking					
	60°						Enabled					
Module & Component Characterizations	Type	Component			Characterization							
	Module	SIL-440QD (Silfab Solar Inc.)			SILFAB_SIL_440QD_INTERNAL_045_250117.PAN, PAN							
	Inverter	IQ8HC-72-M-US (240V) (Enphase)			Spec Sheet							
	Buck Boost Optimizer	U650B (SolarEdge)			Mfg Spec Sheet							



Components

Component	Name	Count
Inverters	IQ8HC-72-M-US (240V) (Enphase)	71 (27.26 kW)
AC Branches	6 AWG (Copper)	8 (1,156.2 ft)
Module	Silfab Solar Inc., SIL-440QD (440W)	71 (31.24 kW)

Wiring Zones

Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	-	Along Racking
Wiring Zone 2	-	-	Along Racking

Field Segments

Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Flush Mount	Portrait (Vertical)	22.62°	307.87497°	0.0 ft	1x1			0
Field Segment 1 (copy)	Flush Mount	Portrait (Vertical)	22.62°	127.874985°	0.0 ft	1x1	32	32	14.08 kW
Field Segment 3	Flush Mount	Portrait (Vertical)	22.62°	308.8087°	0.0 ft	1x1			0
Field Segment 3 (copy)	Flush Mount	Portrait (Vertical)	22.62°	128.80869°	0.0 ft	1x1	39	39	17.16 kW

📍 Detailed Layout2



Existing State and Local Resources Related to Wildfire Risk and Management

R. Sieber, 13 November 2025

Prepared with assistance from Microsoft Copilot.

State Agencies

- **Maine Forest Service (MFS):** The primary state agency responsible for wildland and forest fire management. MFS oversees fire prevention, detection, suppression, and investigation across Maine's forests and wildlands.
- **Maine Emergency Management Agency (MEMA):** Coordinates statewide emergency response, including large-scale wildfire incidents, and supports local agencies during major events.

Local Agencies

- **Municipal Fire Departments:** Local fire departments and volunteer fire companies respond to wildland fires within their jurisdictions, especially in rural and forested areas.
- **County Emergency Management Agencies:** These agencies may assist with coordination and resource allocation during significant fire events.

Collaboration

- State and local agencies often work together, especially during large or complex fires. The Maine Forest Service provides training, resources, and support to local fire departments. Mutual aid agreements are common, allowing agencies to share personnel and equipment.

Maine Forest Service: Prevention and Response Roles

Prevention

- **Education & Outreach:** The Maine Forest Service (MFS) conducts public education campaigns about wildfire risks, safe burning practices, and fire prevention strategies. They provide resources to landowners, schools, and communities.
- **Permitting & Regulation:** MFS oversees the issuance of burn permits and enforces regulations related to open burning, debris burning, and campfires. They monitor compliance to reduce accidental ignitions.
- **Hazard Reduction:** The agency works on fuel management projects, such as controlled burns and vegetation thinning, to reduce wildfire risk in vulnerable areas.

- **Training & Support:** MFS trains local fire departments and volunteers in wildfire prevention and suppression techniques, ensuring readiness across the state.

Response

- **Detection & Dispatch:** MFS operates lookout towers, aerial patrols, and uses technology to detect wildfires quickly. Once a fire is reported, they coordinate the initial response.
- **Fire Suppression:** MFS leads and supports firefighting operations, deploying specialized crews and equipment to contain and extinguish wildland fires. They often work alongside local fire departments.
- **Incident Management:** For larger fires, MFS establishes incident command structures, coordinates resources, and manages logistics to ensure effective response.
- **Investigation:** After a fire, MFS investigates the cause, documents impacts, and may pursue enforcement actions if regulations were violated.

Collaboration

- MFS collaborates with local, county, and federal agencies, sharing expertise, equipment, and personnel during major incidents. They also participate in mutual aid agreements and regional wildfire response networks.

Resources and Recommendations For Private Landowners

Defensible Space and Property Maintenance

- Create and maintain defensible space around structures by reducing or removing flammable vegetation and materials. This includes:
 - Keeping roofs and gutters clear of leaves, needles, and debris.
 - Storing firewood at least 30 feet from homes or camps.
 - Trimming tree branches that overhang roofs.
 - Maintaining isolated, well-pruned, and watered landscaping near homes.
 - Keeping a garden hose (at least 100 feet) attached to an outside faucet if water is available.

Participation in Risk Assessments

- The Maine Forest Service (MFS) offers free wildfire risk assessments for homes in the wildland-urban interface. These assessments evaluate factors such as access roads, building materials, and defensible space. The results can help prioritize mitigation actions and may support eligibility for federal funding for firebreaks and fuel reduction projects.

Community Wildfire Protection Plans (CWPPs)

- Private landowners can participate in the development of CWPPs, which identify local wildfire risks and outline mitigation strategies. These plans are often required for grant eligibility and can guide community-level hazard reduction efforts.

Resources and Recommendations For Towns and Municipalities

Community Planning and Collaboration

- Towns are encouraged to develop or update CWPPs, often with support from the MFS and federal grants. These plans help prioritize risk reduction projects, such as creating fire breaks and conducting hazardous fuels mitigation (e.g., brush removal, prescribed burns).
- Municipalities can apply for Community Wildfire Defense Grants to fund planning and mitigation projects. Projects must be community-based and directly address hazardous fuel reduction.

Regulations and Enforcement

- Maine has adopted building codes and vegetation management regulations to reduce wildfire risk. Towns may enforce defensible space requirements and restrict outdoor burning during high fire danger periods.
- Local fire departments and the MFS conduct inspections and provide education to ensure compliance with mitigation regulations.

Risk Assessment and Data Tools

- The Office of State Fire Marshal provides community risk assessment data and mapping tools to help towns identify and prioritize wildfire risks. These resources support emergency preparedness and targeted mitigation efforts.

Resources and Recommendations For Public Land Trusts

Best Practices and Collaboration

- Land trusts are encouraged to collaborate with the MFS, local fire departments, and other stakeholders to implement wildfire risk reduction strategies. This may include:
 - Participating in or supporting CWPPs.
 - Engaging in hazardous fuels management (e.g., thinning, prescribed fire).
 - Maintaining access for firefighting and emergency response.
- The Maine Land Trust Network provides resources and sample documents to guide land trusts in developing policies and practices for hazard reduction and land management.

Grant Opportunities

- Land trusts may be eligible for federal and state grants to support wildfire risk reduction projects, especially those that benefit at-risk communities or protect critical infrastructure.

Key Takeaways

- The Maine Forest Service is the primary resource for technical assistance, risk assessments, and grant guidance for all landowners and managers.
- Creating defensible space, participating in community planning, and maintaining access for emergency response are universal recommendations.
- Collaboration between private landowners, towns, and land trusts is essential for effective hazard reduction and wildfire preparedness.

Federal Community Wildfire Defense Grants (CWDG) help communities and Tribes plan for and reduce wildfire risk and implement the [National Cohesive Wildland Fire Management Strategy](#).

Launched in 2022, the \$1 billion five-year competitive grant program funded by the Infrastructure Investment and Jobs Act prioritizes communities that:

- Are in an area identified as having high or very high wildfire hazard potential,
- Are low income or,
- Have been impacted by a severe disaster within the previous 10 years which increased wildfire risk and/or hazard.

Office of the State Fire Marshal Data Tools

1. Community Risk Assessment Data Tools

- The Office provides a suite of tools for assessing community risk, including dashboards and mapping resources. These tools help local agencies and communities identify fire risks, analyze incident data, and prioritize prevention efforts.
- Examples include:
 - **Maine Incident Data Dashboards:** Summarize fire incidents, fatalities, and trends by county and community.
 - **Home Risk Fire Map:** Allows users to zoom into their county or locality to view home fire risk scores.
 - [Northeast-Midwest Foresters Alliance Community Exposure Dashboard: A wildland fire tool for assessing exposure and risk.](#)
 - **Demographic and Socioeconomic Data Visualization Tools:** These help communities understand social vulnerability and resilience factors that may affect fire risk and response.
 - **FEMA National Risk Index and NFPA Data:** National resources are integrated for broader risk analysis.

- **Training Demo Videos:** Available for learning how to use these tools effectively.
- **Census Visualization Tools:** For exploring community resilience and demographic profiles.
- **Fire Fatality and Incident Summaries:** Detailed breakdowns by year, county, and incident type.

2. Community Risk Reduction (CRR) Planning Tools

- The State Fire Marshal's Office offers guides and templates for developing local CRR plans, including:
 - **CRR Development Guide and Schedule**
 - **Community Risk Assessment Workshop Syllabus**
 - **Department CRR Plan Template and Worksheet**
- These resources support fire departments in strategic planning and risk reduction efforts.

3. Fire Incident Reporting System

- The office maintains a Fire & EMS Incident Reporting System, which collects and analyzes statewide fire incident data. This system supports research, planning, and public education efforts.

4. Annual Reports and Dashboards

- Annual operations and fire reports provide comprehensive data on fire fatalities, incident types, mutual aid activities, and reporting by county. These reports include dashboard summaries and trend analyses for multiple years.

How These Tools Are Used

- **Local Agencies:** Use these tools to assess risk, plan prevention strategies, and report incidents.
- **Community Leaders:** Leverage data for resource allocation and emergency preparedness.
- **Public:** Can access certain dashboards and maps to understand fire risk in their area.

Additional Findings from Public Sources

Massabesic Region CWPP:

There is clear evidence that a CWPP has been developed for the Massabesic region of York County, Maine. This plan covers the towns of Hollis, Waterboro, Alfred, Lyman, Dayton, and Kennebunk. The CWPP was collaboratively developed with support from local emergency response personnel, large landowners, and organizations such as the Forest Stewards Guild and the York County Emergency

Management Agency. Public meetings have been held to gather community input and prioritize wildfire mitigation actions for these towns.

York County Wildland Fire Academy and CWPP Development:

Recent initiatives, including the York County Wildland Fire Academy, have advanced wildfire risk reduction and CWPP development in the region. These efforts are part of a broader strategy to build local capacity and implement wildfire mitigation practices, particularly in the fire-adapted Massabesic landscape.

Hazard Mitigation Planning:

York County also maintains a Hazard Mitigation Plan that addresses wildfire risk among other hazards. While not a CWPP in the strict sense, this plan demonstrates ongoing county-level commitment to wildfire preparedness and mitigation.

Summary

- **Towns with CWPPs:** Hollis, Waterboro, Alfred, Lyman, Dayton, and Kennebunk are confirmed to be part of the Massabesic Region CWPP.
- **Collaborative Approach:** The CWPP process in York County involves local government, emergency management, landowners, and regional organizations.
- **Additional Planning:** York County's Hazard Mitigation Plan complements CWPP efforts by addressing wildfire and other risks.

solar

Submitted to

Town of York
ATTN: Taylor Maguire
186 York St
York, ME 03909

Project Site:

York Village Fire Station
1 Firehouse Dr
York, ME 03909

Provided by

True Enterprises LLC
658 Dow Hwy
Eliot, ME 03903

Date

October 10, 2025

Proposal

2025080

Thank you:

We are pleased that you have contacted True Enterprises to provide a proposal estimate for your solar array project.

Scope of Work:

Provide and install 51 – 595W solar modules, 51 – DC Optimizers, 2 – string inverters with module-level monitoring, flush mount racking system, and miscellaneous hardware to complete a full solar installation. The system will be mounted at optimal azimuth for sun exposure using engineered rail system and attachments. PV wire will run into string inverter, then tie into main electrical service to power the facility & back feed excess generation to grid for utility credit. See attached system spec packet for renewable energy equipment details and generation projections.

True Enterprises LLC will provide the following services:

- Acquire, transport, unpack, and pack all necessary components for system installation
- Construct racking system, mount modules and equipment
- Supply and configure all wiring and electrical connections from array to service, including utility accessible disconnect
- Commission system, enable monitoring and revenue grade meter reporting
- Utility co. interconnection coordination including net metering agreement processing, standard DG fees, etc.
- Permitting and electrical + building code compliance
- One year system maintenance and monitoring service included:
 - Biannual proactive physical system inspections
 - Monthly remote performance review
 - 24/7 alert retrieval and guaranteed response
 - Complimentary RMA processing as needed
 - After first year in operation, service contract extension offered with discounted labor rates

Estimate:

System DC Size	30.35 kW
Total System Cost	\$93,065
Less: 30% Federal Tax Credit (ITC)	(\$27,919.50)
Net Cost after First Year	\$65,145.50

Notes and Exclusions:

- It is advised you meet with your accountant for final tax preparation for ITC credit *(available for direct pay for tax-exempt entities)*
- In the event CMP tech screenings require grid upgrades for system approval, customer will be financially responsible for additional utility services
- Any work not specifically called out in scope of work section will be billed time and material at \$100/hr
- Or comparable model.
- True Enterprises assumes the roof-surface is acceptable for system placement.

System Components:

The proposed system features these major components (or equivalent):

- (51) Q.PEAK DUO XL-G11S.3/BFG 595, QCELLS 595-Watt Solar Modules
- (51) C651U, SolarEdge DC Optimizers (1:1 per Module)
- (1) SE10KUS, SolarEdge Three-phase 208V String Inverter
- (1) SE17.3KUS, SolarEdge Three-phase 208V String Inverter
- (1) IronRidge Aire Racking System with Halo UltraGrip Roof Attachments

Incentives:

This system qualifies for the following incentives

- The solar installation is eligible for a 30% federal tax credit. This credit (not deduction) is subtracted directly from an existing tax liability come tax time. Tax-exempt entities may register with IRS for direct pay option.
- Your system will be equipped with approved meter and data reporting software for SREC program participation (optional). See NEPOOL/SREC info attached for further details.

Standard Terms and Conditions:

By signing this contract, you agree to our standard terms and conditions attached.

Warranties:

See Attached Sheets for more information on warranties

- QCELLS provides a 12-year Product and 30-year Linear Performance Warranty.
- SolarEdge provides a 25-year Product Warranty.
- IronRidge provides a 25-year Product Warranty.
- True Enterprises LLC provides a 5-year Warranty on all labor and services.

Payment Terms:

- 25% due upon acceptance of proposal
- 25% due upon commencement of construction
- 50% due upon completion

Please sign below as a commitment and to allow us to move forward with equipment procurement. You will receive an invoice for deposit on Quickbooks, you may either pay online using that link or mail payable to True Enterprises, LLC to the address below

PO Box 322
Eliot, ME 03903

X. _____

Date _____

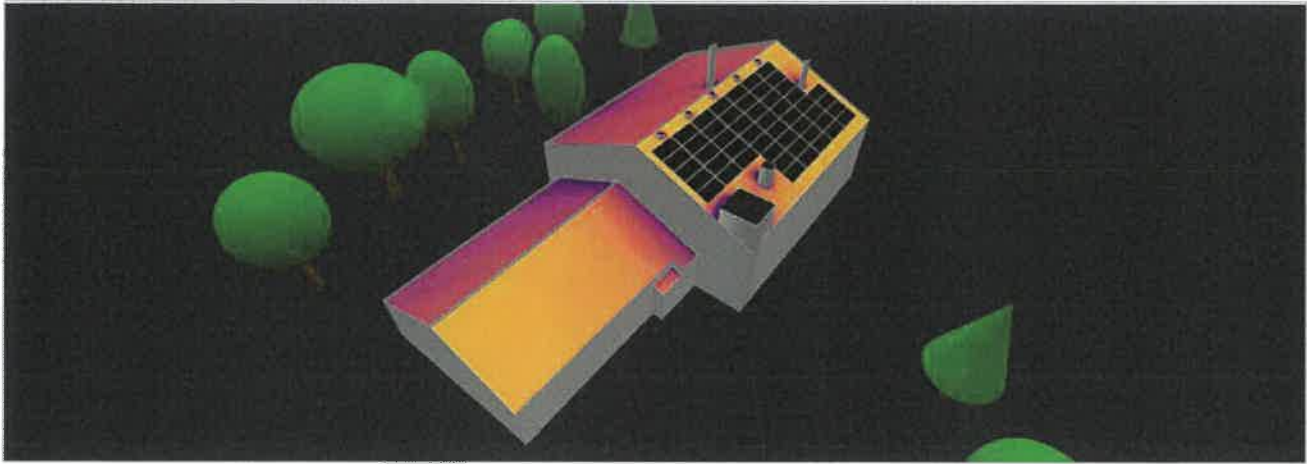
Notes

Estimates for production, system efficiency and performance are based upon historical data as well as site evaluation. Due to large number of variables affecting efficiency and performance, True Enterprises, LLC does not guarantee that equipment or system installed will perform in accordance with proposed estimates.







X. _____

YORK VILLAGE FIRE STATION

Firehouse Drive 1, York, Maine, 03909, United States | Oct 10, 2025



BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (\$)	Total (\$)
Base Price		1	91050.00	91,050.00
	SE10KUS (SE-SIN)	1		
	SE17.3KUS (SE-SIN)	1		
	C651U	51		
	Q.PEAK DUO XL-G11S.3/BFG 595	51		
	IronRidge Aire Racking System w/ Halo Ultragrip Attachments (Comp. Shingle Roof)	1		
	SREC Approved Revenue Grade Meter and CTs enabled with auto-reporting to NEPOOL	1	0.00	0.00

Total Price: \$91,050.00

YORK VILLAGE FIRE STATION

Firehouse Drive 1, York, Maine, 03909, United States | Oct 10, 2025



SIMULATION RESULTS



Installed DC Power

30.35 kWp



Max Achieved AC Power

27.30 kW

Annual Usable Solar
Production

37.97 MWh

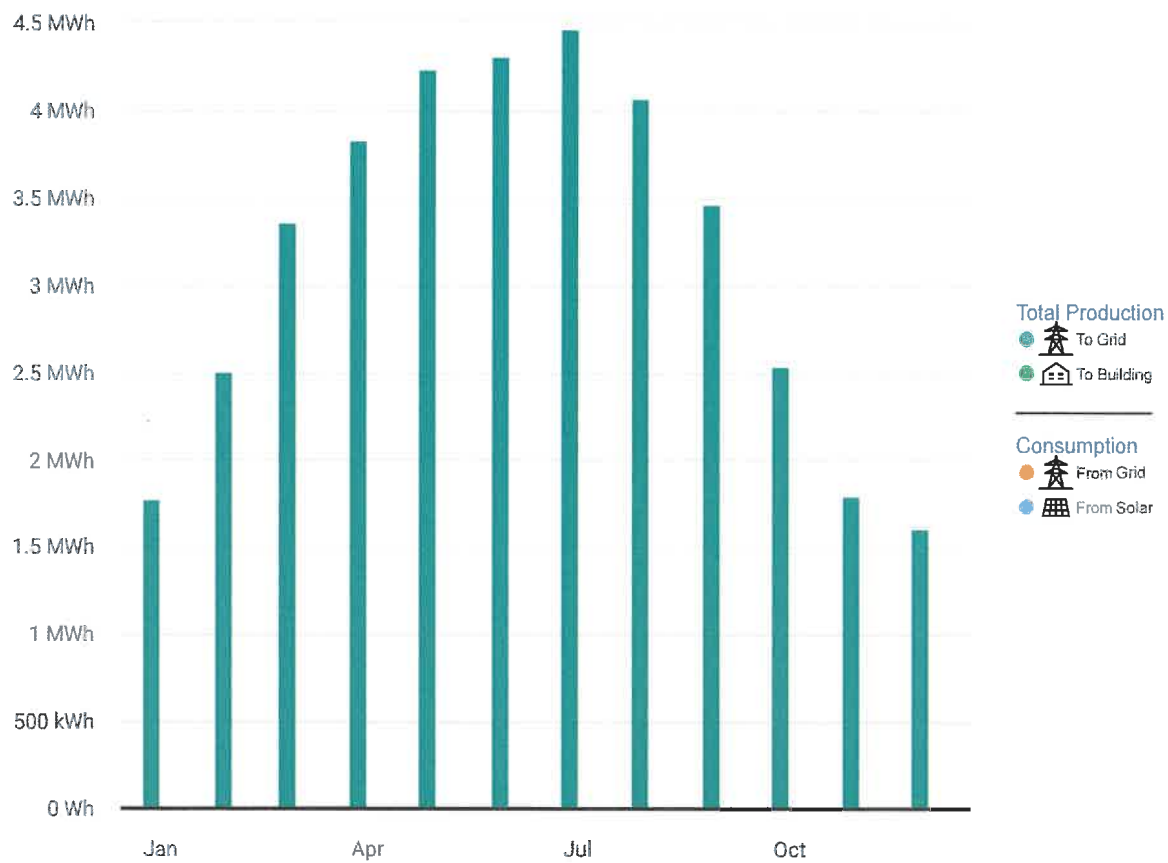
Annual CO₂ Emission Saved

26.84 t

Annual Equivalent Trees
Planted

1,233

ESTIMATED MONTHLY ENERGY





Total clipped energy: 0%

YORK VILLAGE FIRE STATION









Firehouse Drive 1, York, Maine, 03909, United States | Oct 10, 2025



PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
51	Hanwha Q.Cells GmbH, Q.PEAK DUO XL-G11S.3/BFG 595	30.3 kWp			128°	24°
Total: 51		30.3 kWp				

ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 x SE17.3KUS (SE-SIN) 19.04kW 110% Oversizing	 2 x strings	 16 x C651U	 16
 1 x SE10KUS (SE-SIN) 11.31kW 113% Oversizing	 1 x string	 19 x C651U	 19

TERMS AND CONDITIONS

These conditions form part of a quotation submitted by True Enterprises LLC (the "Contractor") to the Client named in the quotation. The Contractor will carry out "the Work" described in this quotation for "the contract sum", which may be varied pursuant to these conditions.

1. Contract. Upon acceptance of the written proposal by Client, the terms and conditions contained herein shall be binding upon the parties. No change in the terms of the contract shall be effective unless agreed in writing by the Contractor. The waiver by the Contractor of a term or a breach of any of these terms shall not be deemed to be a waiver of any other term or any subsequent breach of that or any other term.
2. Payment Terms. The payment terms shall be as set forth in the quotation. If there is no such payment terms, or for any modification of services agreed upon the Client, the Client shall pay the Contractor within thirty (30) days of invoice. Any payment not received when due shall be subject to a late payment penalty of two percent (2%) per month until paid in full.
3. Change Orders. The parties hereto agree that Client may from time to time order changes in the Work provided the progress of the Work is at a stage which will accommodate such changes. In such event, the total estimated project cost shall be adjusted accordingly. All such orders and adjustments shall be in writing, signed by the parties hereto, and the adjustments to the total estimated project cost shall be set forth in writing. If the Contractor is delayed at any time in progress of the Work by changes ordered in the Work, then the contract time shall be extended by a reasonable amount.
4. Warranty. In addition to any additional warranties agreed to by the parties, the Contractor warrants that the Work will be free from faulty materials; constructed according to the standards of the building code applicable for this location; constructed in a skillful manner and fit for habitation. The warranty rights and remedies set forth in the Maine Uniform Commercial Code, if applicable, apply to this Agreement. The above language is required by the provision of 10 M.R.S.A. '1486, et seq. and the parties agree that the effect thereof shall be limited to that required under 10 M.R.S.A. '1487. Any notice of warranty claim must be presented to Contractor in writing within five (5) years of completion of the Work. The Contractor shall transfer, set over and arising all warranties on materials, appliances and products incorporated into the Work which may have been given to General Contractor by any manufacturer or supplier.
5. Use and Occupancy of the Building. The Client assumes all risk for personal belongings stored at the work location while the Work is in progress.

6. Risk of Loss. The risk of loss to all improvements to be constructed at the Work location shall pass to the Client upon incorporation of such improvements into the Work location or, in the case of materials, equipment, or appliances, at the time of storage by the Contractor on the Client's property. The Client shall be responsible for maintaining adequate builders' risk insurance at all times.
7. Force Majeure. If the Contractor is delayed in the execution of the Work due to any cause beyond its control (including, but not limited to, acts of God, inclement weather, strikes, lockouts or other industrial disturbances, fire, flood, explosion and laws, rules, regulations or orders of any Government authority or delays caused by any other person, company or authority including the inability to obtain necessary materials, accessories, equipment or parts from the manufacturers thereof), the Contractor shall be entitled to a reasonable extension of time to complete the Work while such cause exists.
8. Limitation of Liability.
 - (a) The Contractor's liability to Client for damages from any cause whatsoever and regardless of the form of action, whether in contract or in tort, including negligence, shall not exceed the charges paid or payable hereunder.
 - (b) No action (whether in contract or tort, including negligence) arising out of the performance of Client under this Agreement may be brought by either party more than eighteen (18) months after the cause of the action has arisen except that an action for non-payment may be brought within eighteen (18) months of the date of last payment.
 - (c) In no event will the Contractor be liable for any lost profits or any other special, indirect or consequential damages even if the Contractor has been advised of or should have known of the possibility of such damages, or for any claim against Client by any other party.
 - (d) Client shall indemnify and defend the Contractor for any claims by third parties which are occasioned by or arising from any act by the Contractor pursuant to instructions of Client.
9. Collection Costs. Client shall pay all costs and expenses, including attorneys' fees, incurred by the Contractor in enforcing this Agreement.
10. Binding Effect. This Agreement is binding upon the heirs, personal representatives, administrators and successors of the respective parties and shall be construed in accordance with the laws of the State of Maine and the liability of Owner shall be joint and several.



30.35 kWdc

1 FIREHOUSE DR
YORK, ME 03909

SOLAR PROPOSAL 2025080

Submitted to:
Town of York
186 York St
York, ME 03909
October 10, 2025

Prepared by:
True Enterprises LLC
658 Dow Hwy
Eliot, ME 03903
207-606-0250

TECHNICAL DOCUMENTS ENCLOSED:

- Design Report Summary
- Proposed System Data Sheets
 - QCELLS 595-Watt Modules (QTY: 51),
Q.PEAK DUO XL-G11S.3/BFG 595
 - SolarEdge 3P Inverter (QTY: 2),
SE10KUS, SE17.3KUS
 - SolarEdge DC Optimizers (QTY: 51),
C65IU
 - IronRidge Aire Flush-Mount Racking
 - Halo UltraGrip Attachments
- NREL PVWatts Production Estimate
- SolarEdge System Benefits

YORK VILLAGE FIRE STATION

Firehouse Drive 1, York, Maine, 03909, United States | Oct 10, 2025

**SIMULATION RESULTS**

Installed DC Power

30.35 kWp



Max Achieved AC Power

27.30 kW

Annual Usable Solar
Production

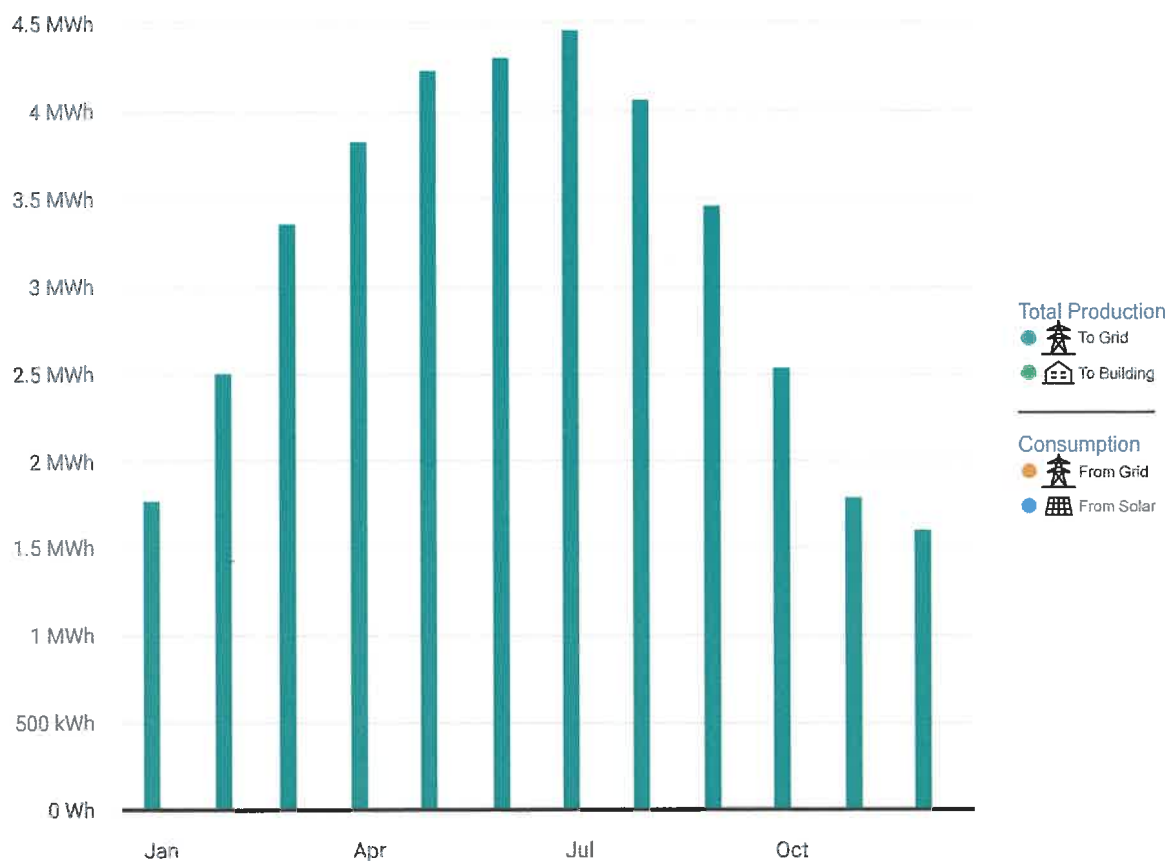
37.97 MWh

Annual CO₂ Emission Saved

26.84 t

Annual Equivalent Trees
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1,233

ESTIMATED MONTHLY ENERGY

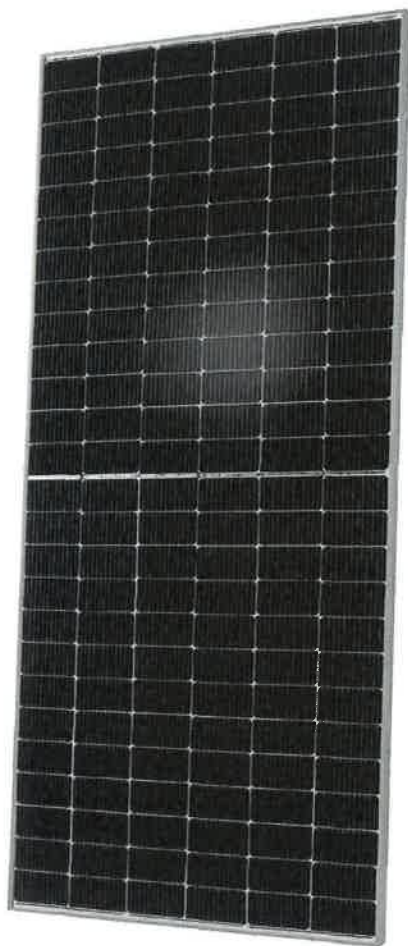
Total clipped energy: 0%

Q.PEAK DUO XL-G11S SERIES



590 - 605 Wp | 156 Cells
21.7% Maximum Module Efficiency

MODEL Q.PEAK DUO XL-G11S.3/BFG



Bifacial energy yield gain of up to 21%

Bifacial Q.ANTUM solar cells make efficient use of light shining on the module rear-side for radically improved LCOE.



Low electricity generation costs

Q.ANTUM DUO technology with optimized module layout to boost module power and improve LCOE.



A reliable investment

Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty¹.



Enduring high performance

Long-term yield security with Anti LID and Anti PID Technology², Hot-Spot Protect.



Frame for versatile mounting options

High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (3750 Pa)³.



Innovative all-weather technology

Optimal yields, whatever the weather with excellent low-light and temperature behavior.

¹ See data sheet on rear for further information.

² APT test conditions according to IEC/TS 62804-1:2015 method B (-1500 V, 168 h) including post treatment according to IEC 61215-1 Ed. 2.0 (CD)

³ See Installation Manual for instructions

The ideal solution for:



Ground-mounted solar power plants



Solar power plants with tracker



Three Phase Inverters for the 120/208V Grid For North America

SE10KUS / SE17.3KUS



INVERTERS

The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- Fixed voltage inverter for superior efficiency and longer strings
- Built-in type 2 DC and AC Surge Protection, to better withstand lightning events
- Small, lightest in its class, and easy to install outdoors or indoors on provided bracket
- Integrated arc fault protection and rapid shutdown for NEC 2014, 2017, and 2020, per article 690.11 and 690.12
- Built-in module-level monitoring with Ethernet, wireless or cellular communication for full system visibility
- Integrated Safety Switch
- UL1741 SA and SB certified, for CPUC Rule 21 grid compliance

Commercial Power Optimizer

USA Domestic Content Eligible

C651U



POWER OPTIMIZER



SolarEdge's USA-manufactured offering for C&I projects, for power optimization at the module level

- **Eligible for Domestic Content***
 - SolarEdge USA-manufactured power optimizers, when paired with certain SolarEdge USA-manufactured inverters, are intended to be eligible for the enhanced federal income tax credit for domestic content
- **Higher Energy Yields**
 - Generates maximum power from each PV module
 - High efficiency (99.5%)
 - Supports high power and bifacial PV modules, including G12 modules
- **Enhanced Monitoring and Visibility**
 - Maximum system visibility up to the individual module level
 - Pinpointed fault detection and remote troubleshooting
- **Maximum Protection with Built-in Safety**
 - Designed to automatically reduce high DC voltage to touch-safe levels, upon grid/inverter shutdown, with SafeDC™
 - Includes SolarEdge Sense Connect, designed to prevent arcs by monitoring Power Optimizer connectors for overheating
 - Certified to Photovoltaic Rapid Shutdown, according to NEC 2014 – 2023

* For more information, refer to the last page of this document

/ Power Optimizer

USA Domestic Content Eligible for North America

C651U

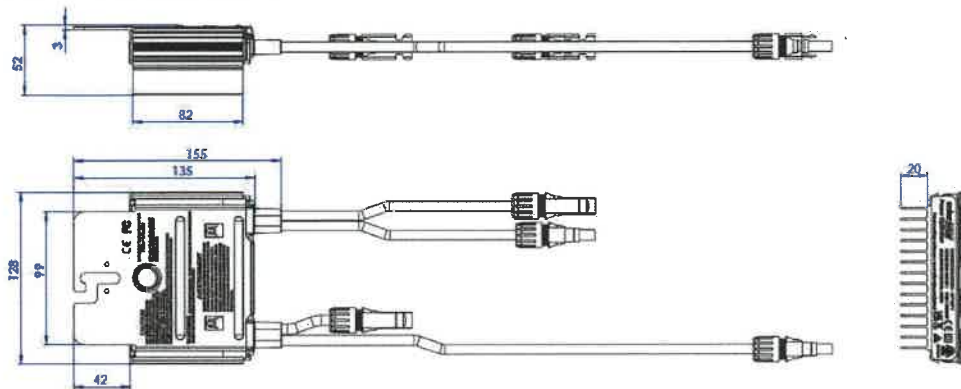
PV System Design Using a SolarEdge Inverter ⁽⁸⁾		208V Grid SE10K	208V Grid SE17.3K*	277/480V Grid SE30K, SE33.3K*	277/480V Grid SE40K*	
Compatible Power Optimizers		C651U				
Minimum String Length	Power Optimizers	13	13	18	18	
	PV Modules	13	13	18	18	
Maximum String Length	Power Optimizers	57	57	57	57	
	PV Modules	57	57	57	57	
Maximum Continuous Power per String		10,000	9600	20,400	20,400	W
Maximum Allowed Connected Power per String ⁽⁹⁾		1 string or more – 15,000	1 string – 11,400	1 string – 22,650	1 string – 22,650	W
			2 strings or more – 15,600	2 strings or more – 30,400	2 strings or more – 30,400	
Parallel Strings of Different Lengths or Orientations		Yes				
Maximum Difference in Number of Power Optimizers Allowed Between the Shortest and Longest String Connected to the Same Inverter Unit		5 Power Optimizers				

*The same rules apply for Synergy units of equivalent power ratings, that are part of the modular Synergy Technology inverter.

(8) C651U cannot be mixed with any other Power Optimizer models in the same string.

(9) To connect more STC power per string, design your project using [SolarEdge Designer](#).

C651U Mechanical Drawing



Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USE-SIN-USR0IBNS6, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INN6, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USE-SIN-USR0IBNS8, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INN8, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

Rails

Aire® A1 Rail



The lighter, open Aire® rail for standard conditions.

- 6' spanning capability
- Wire management tray
- Mill or anodized black

Aire® A2 Rail



The tougher, open Aire® rail for higher load capacity.

- 8' spanning capability
- Wire management tray
- Mill or anodized black

Aire® Rail Ties



Structurally connect and bond Aire® Rails together.

- Reinstallable, up to 5x
- Internal splice design
- No more splice rules

Aire® Dock



Connects Aire® Rails to attachments with ease.

- Clicks on, slides easily
- Drops into open slots
- Anodized assembly

Clamps & Grounding

Aire® Lock Mids



Securely bond between modules to Aire® Rails.

- Fits 30-40mm modules
- Utilizes UFO® design
- Minimal 1/2" gap

Aire® Lock Ends



Securely bond modules to Aire® Rails along ends.

- Fits 30-40mm modules
- Easy rail engagement
- Clean aesthetics

Aire® Lock Stealth®



Securely bonds modules to rail ends, entirely hidden.

- Angled for easy install
- Robust tether leash
- Fits most modules

Aire® Lug



Bonds Aire® Rails to grounding conductors.

- Simplified with single bolt
- Low-profile form factor
- Works with 10-6 AWG

Accessories

Aire® Caps



Block entry and provide a finished look to Aire® Rails.

- Stay secure on rail ends
- Symmetrical, with drain
- Cover rough-cut ends

Aire® Clip



Keeps wiring contained in open Aire® Rail channels.

- No module interference
- Simple press-in design
- Slot for easy removal

Aire® MLPE Mount



Securely bonds MLPE and accessories to Aire® Rails.

- Glove-friendly installation
- Lays flush in rail channel
- Low profile form factor

Aire® All Tile Hook



Attaches rails to tile roofs, with Aire® Dock included.

- Works on flat, S, & W tiles
- Single-socket installation
- Optional deck flashing

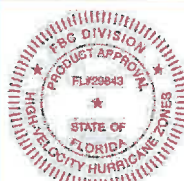
Resources



Design Assistant

Quickly go from rough layout to fully engineered system.

Go to IronRidge.com/design



Approved for FL Hurricane Zones

Aire® has Florida Product Approval. Additional details can be found on the Florida Building Code website.

Learn More at bit.ly/florida-aire

Adaptive, Rafter-Friendly Installation



Hit the rafter? Good to go!

When you find a rafter, you can move on.
Only 2 RD Structural Screws are needed.



Miss the rafter? Try it again.

Place another screw to the left or right. If
rafter is found, install 3rd and final screw.



Still no luck? Install the rest.

If more than 3 screws miss the rafter,
secure six screws to deck mount it.

Trusted Strength & Less Hassle



Structural capacities of HUG™ were reviewed in many load directions, with racking rail running cross-slope or up-slope in relation to roof pitch.

For further details, see the HUG certification letters for attaching to rafters and decking.

IronRidge designed the HUG, in combination with the RD Structural Screw to streamline installs, which means the following:

- No prying shingles
- No roof nail interference
- No pilot holes necessary
- No sealant (in most cases)
- No butyl shims needed

Attachment Loading



The rafter-mounted HUG has been tested and rated to support 1004 (lbs) of uplift and 368 (lbs) of lateral load.

Structural Design



Parts are designed and certified for compliance with the International Building Code & ASCE/SEI-7.

Water Seal Ratings



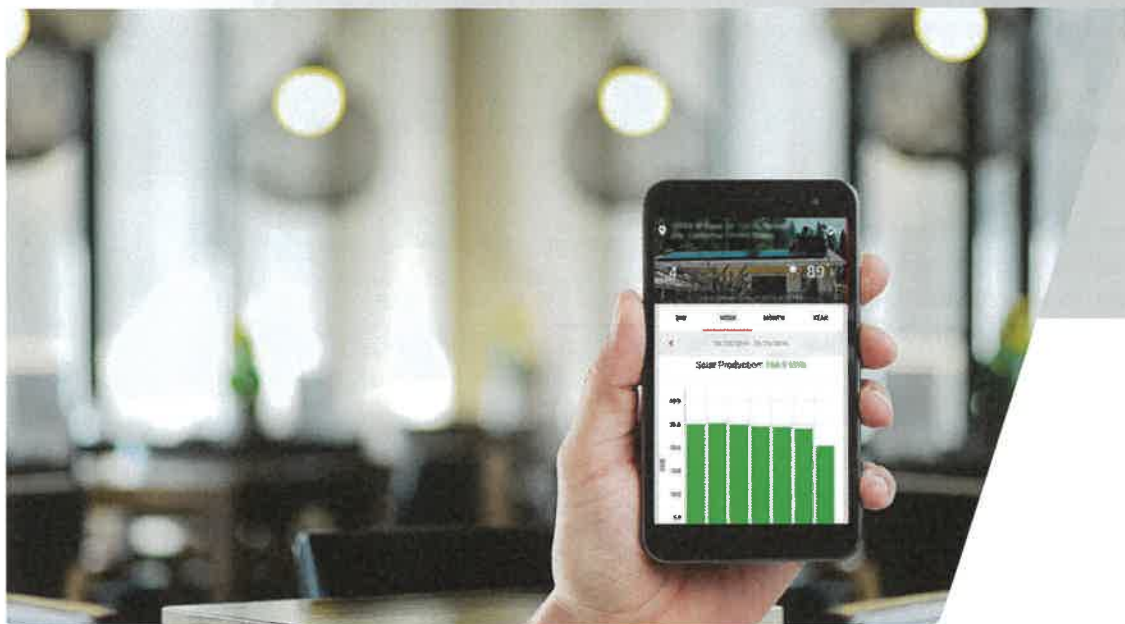
HUG passed both the UL 441 Section 27 "Rain Test" and TAS 100(A)-95 "Wind Driven Rain Test" by Intertek.

UL 2703 System



Systems conform to UL 2703 mechanical and bonding requirements. See Flush Mount Manual for more info.





Know that your PV system is producing to its maximum potential.

View historic and real-time energy production of your SolarEdge optimized system on the go with your smart phone.



Easy to use charts show your PV performance.

Compare today's production to past measurements.



Want to know how your PV system stacks up against your friends?

You can share real-time system performance details with your friends across many social platforms: email, messaging apps, Facebook and on Twitter.



Real-time and forecasted weather data.

Evaluate your system's performance by understanding what environmental conditions affect energy production.

See and share your system's performance on the go: real-time insight to home energy production and usage.

Gain visibility into your system performance in real-time with this intuitive, user-friendly app. Share your system performance at the push of a button.

Don't have a solar system yet? You can explore and learn about features by using the demo account.

Download the app for free on iPhone or Android by visiting the AppStore or Google Play.



SolarEdge's Standout Values

SolarEdge commercial solutions are driven by our DC-optimized technology, diverse product offering and industry-leading PV safety features.

Together, they help us meet the growing demand and complexities of the rapidly evolving commercial solar market, and provide our partners with the capabilities to power their PV business.





Optimized

Maximum Energy Yield in Commercial Installations

Common in commercial installations, module-level mismatch occurs when PV modules in a string have different Maximum Power Points (MPPs), usually the result of soiling, shading, uneven terrain, or module aging. This decreases the energy yield of the entire string.

With Power Optimizers connected to each module, the SolarEdge solution mitigates power losses caused by module mismatch, resulting in maximum production from each module. The underperformance of one will not affect the rest of the system.

Unique Design Flexibility

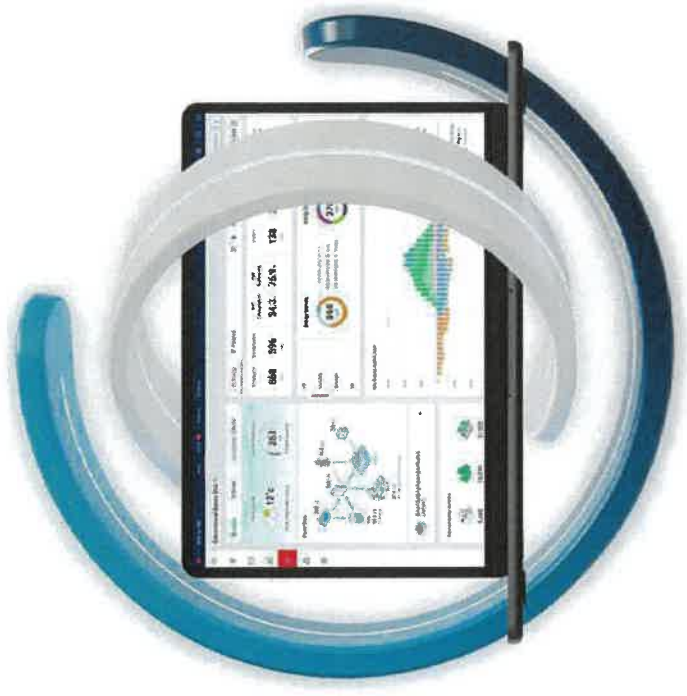
With module-level power optimization and maximum design flexibility, more modules can be installed onsite for increased system capacities which enable shorter project payback periods.

SolarEdge Power Optimizers enable installation of modules in partially shaded areas, strings of uneven lengths, in multiple orientations and different roof facets, or in irregularly shaped fields and sloped terrains.

Energy optimization across the ecosystem

SolarEdge optimizes energy generation and usage by orchestrating decision-making across all site energy assets, from the fleet to the device and module level, via the SolarEdge ONE for C&I platform.

Able to process vast amounts of data every second, the cloud-based ONE platform incorporates customer definitions and market conditions to ensure each component of the SolarEdge ecosystem is performing at its peak. This helps to save costs, lower operational expenses and meet ESG goals throughout the PV system lifetime.



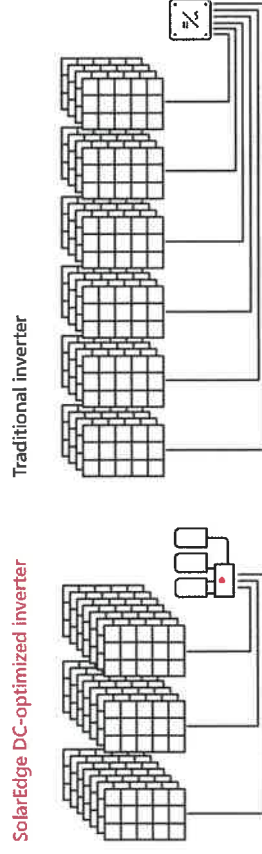
Achieve Higher Lifetime Value

Reduced BoS Costs

SolarEdge Power Optimizers enable more power per string. This means longer and fewer strings when compared to traditional string inverter systems.

The reduction in wiring, combiner boxes and fuses can result in up to 50% BoS savings.

SolarEdge solutions require less wiring:



Greater O&M Savings

In addition to installation cost savings, lifetime maintenance costs are also lower with SolarEdge.

Our module-level monitoring and remote troubleshooting capabilities transforms O&M from a manual, resource-intensive process to an automated, at-a-glance service, ensuring that every plant is performing to the best of its ability at all times.

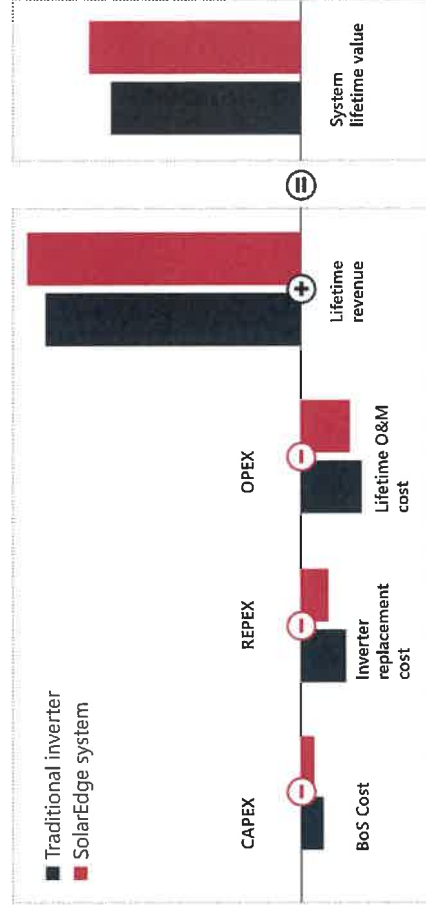
Fewer site visits are therefore needed, further contributing to lower maintenance expenses.

Maximized System Revenue

The SolarEdge solution offers better Levelized Cost of Energy (LCOE) over the system's lifetime by maximizing yield and reducing costs. It maximizes power generation at the individual module level, which leads to a higher lifetime revenue from PV systems.

When combining greater yield performance with additional savings in Balance of System, Operation & Maintenance and system component replacement costs, SolarEdge ensures higher value to the customers during the asset lifetime.

Lifetime PV system cost and revenue*:



* For illustrative purposes only



auto-report solar generation



sell SRECs at market price



pocket your quarterly earnings

To reach utility's green energy goals, many states have adopted "solar renewable energy credit" or SREC market programs. Participants receive 1 SREC for every 1 MWh (equiv. to 1000 kWhs) produced by their array. Credits can be registered and sold, creating extra revenue for the system owner. Massachusetts' SREC program applies to New England's ISO territory, in its entirety. **It's True: MA SREC market is inclusive to qualifying systems located in NH & Maine. Contact us while program is available to maximize your solar ROI!**

kWh Production Period	Date SRECs Issued
Q1 Jan - Mar	July 15
Q2 Apr - Jun	October 15
Q3 Jul - Sep	January 15
Q4 Oct - Dec	April 15

SREC market activity does not impact Net Energy Billing.

Participant's can earn revenue from SRECs and save on energy bill simultaneously!

The built-in system meter measures solar kWh production and reports live inverter data to your monitoring app (for performance metrics visible on your online dashboard)

System meter reads total generation before any exports to grid

The separate utility-owned meter measures kWh exports from solar to grid (excess energy after direct use of solar power at generation facility)

CMP meter reading determines amount of credits earned toward utility account each billing cycle



PROGRAM REQUIREMENTS

- **Revenue-grade meter (RGM):** Your system must be equipped with production tracking device that meets program accuracy standards.
 - If existing system production meter is not on approved equipment list, True will procure & install required RGM accessories (i.e., external meter & CT configuration) or third-party meter to meet requirements
- **Third-Party Verifier:** Once RGM equipment is commissioned to the site, True Enterprises enables automatic reporting. Your monitoring app will be set up to send verified monthly kWh data to the program's tracking registry.
 - Depending on inverter's monitoring app capabilities, systems over 25 kW DC may require specialized data logging software from third-party
- ***Approved Aggregator:** True Enterprises partners with Knollwood Energy to offer solar clients experienced SREC portfolio management and access to preferred high-volume trade prices. In return for administration services, aggregators typically collect a small fee from final SREC sale price. For terms and conditions, please contact your aggregator. **Knollwood Energy: 908-955-0590**
 - While individuals may become authorized to manually enter data themselves, the Dept. of Energy & Resources strongly suggests participating in SREC market through an approved professional aggregator. True offers clients registration assistance with Knollwood Energy. To inquire about enrollment and system eligibility, please contact **True Enterprises: 207-606-0250**



October 8, 2025

Environmental Planner
York Town Hall
Second Floor
186 York Street
York, ME 03909

To Whom It May Concern,

Thank you for the opportunity to bid on the York Village Fire Station roof mounted solar PV array project.

V.H. Energy proposes to install a 25.6 KW solar photo voltaic system at the York Village Fire Station in York, ME. A 64 ZnShine 400W panel system will be installed on the south facing roof of the building. Additionally, the system will also consist of a SolarEdge inverter(s), and each ZnShine module will be serviced by an individual power optimizer. The power from the solar inverter(s) will then be fed into the electric service panel. We estimate that this system would potentially offset approximately 32,000 kWh annually. If your current power consumption were to remain the same, a 25.6 KW system will offset around 100% of that usage. All required town permits, inspection scheduling and utility interconnection application and fees are included in the system price.

Please feel free to contact me with any questions on my mobile at (603) 731-3169 or by email at vhromis@vh-energy.com.

Best,

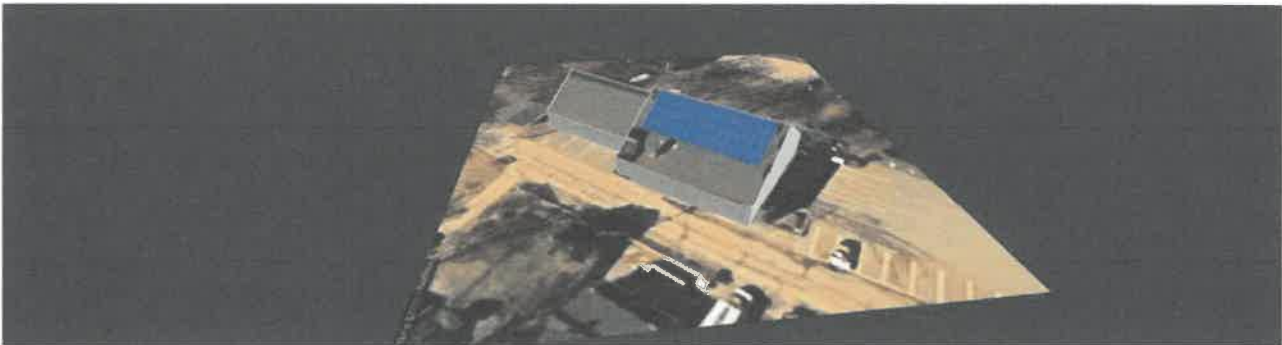
Vladimir Hromis
Owner, V.H. Energy

PO Box 2766 Concord, NH 03302
(603) 556-8530 | www.vh-energy.com



YORKFIRESTATION

Firehouse Drive 1, York, Maine, 03909, United States | Oct 2, 2025



SYSTEM OVERVIEW



64 PV modules



2 Inverters



64 Optimizers

FINANCIAL OVERVIEW

System Price

\$ 69,120

SIMULATION RESULTS



Installed DC Power

25.60 kWp



Max Achieved AC Power

20.00 kW



Annual Usable Solar
Production

35.71 MWh



Annual CO₂ Emission Saved

25.24 t



Annual Equivalent Trees
Planted

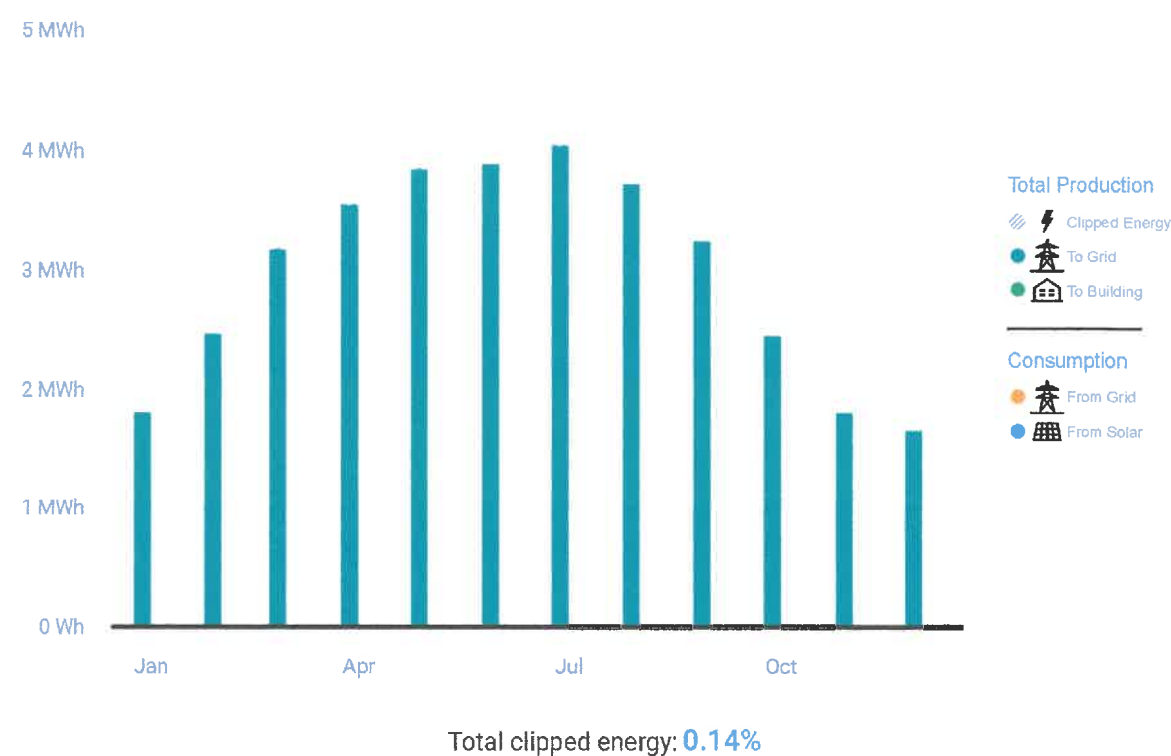
1,159

YORKFIRESTATION

Firehouse Drive 1, York, Maine, 03909, United States | Oct 2, 2025



ESTIMATED MONTHLY ENERGY



PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
64	ZNShine PV-tech Co. Ltd., ZXM7-SH108-400 Full Black	25.6 kWp			129°	35°
Total: 64		25.6 kWp				

BILL OF MATERIALS (BOM)




Items	Part Number	Quantity	Price (\$)	Total (\$)
Base Price per W (DC)		25600	2.70	69,120.00

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BILL OF MATERIALS (BOM) (CONTINUED)

Items	Part Number	Quantity	Price (\$)	Total (\$)
 SE10KUS (SE-SIN)		2		
 C651U		64		
 ZXM7-SH108-400 Full Black		64		
			Total Price	\$ 69,120.00

ELECTRICAL DESIGN

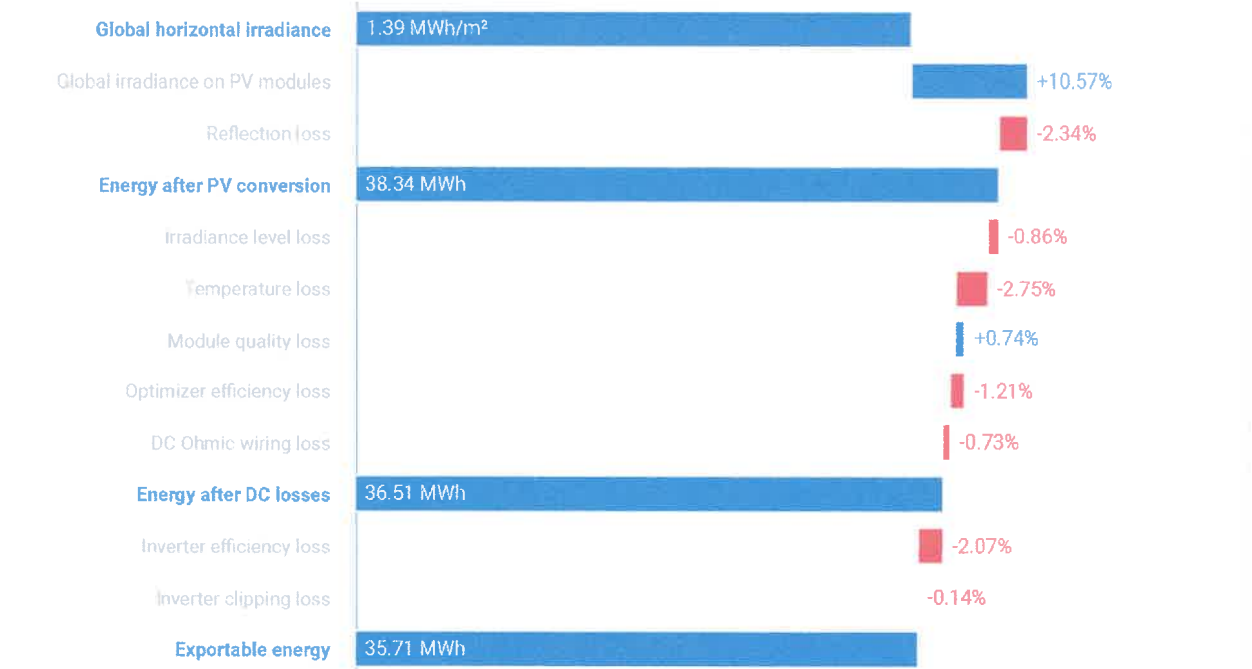
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 2 xSE10KUS (SE-SIN) 12.71kW 127% Oversizing	 1 x string	 32 x C651U	 32

YORK FIRE STATION

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	EDT (New_York)
Weather station	Pease (AFB)/Portsmouth (14 km away)
Station altitude	31 m
Station data source	Meteonorm 8.2
Grid	208V L-L, 120V L-N



LOSS FACTORS

Near shading	Enabled
Albedo	0.20
Bi-Facial Albedo	0.30
Soiling/Snow	0%
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05
Thermal loss factor U _c (const) Flush mount	20
Thermal loss factor U _c (const) Tilted	29
LID loss factor	0%
System unavailability	0%