New York State Department of State
Division of Corporations, State Records and Uniform Commercial Code
One Commerce Plaza, 99 Washington Avenue
Albany, NY 12231-0001
www.dos.state.ny.us/corps

Local Law Filing

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Text of law should be given as amended. Do not include matter being eliminated and do not use italics or underlining to indicate new matter.

COUNTY OF LEWIS

Local Law No. 3 of the Year 2017

THE COUNTY OF LEWIS LOCAL LAW ADOPTING THE NEW YORK STATE EXPEDITED UNIFIED SOLAR PERMIT PROCESS FOR SMALL-SCALE SOLAR ELECTRIC SYSTEMS

SECTION 1. - TITLE:

This local law shall be entitled "The County of Lewis Local Law Adopting the New York State Expedited Unified Solar Permit Process for Small-Scale Solar Electric Systems."

SECTION 2. - PURPOSE:

Unified solar permitting allows municipal authorities to streamline the permitting process while providing consistent and thorough review of solar photovoltaic (PV) applications and installations. Adoption of the New York State Unified Solar Permit process combines a standardized building and electrical permitting process for Grid-Tied, small-scale solar PV installations under the New York State Energy Research and Development Authority (NYSERDA) program, to benefit both the municipality having jurisdiction and the applicant. Adoption of this Local Law supports the County's Clean Energy Community initiative and programs.

SECTION 3. AUTHORITY:

The County of Lewis hereby enacts the following Administrative Local Law pursuant to the provisions of Section 381 of the Executive Law of the State of New York and all other applicable laws.

SECTION 4.

The County of Lewis hereby adopts the New York State Unified Solar Permit Process and establishes the following requirements for a Permit Application Submittal pertaining to Small-Scale, Grid-Tied, Solar Photovoltaic (PV) installation systems having a rating of DC capacity of 25 kW or less under the NYSERDA program, and adopts the Field Inspection Checklist from the New York State Unified Solar Permit Process:

(a) Unified Solar Permit for Small-Scale Solar Electric Systems Eligibility Checklist (*attached as part of Permit application).*

(b) Two (2) sets of plans that include:

• Site Plan showing location of major components of solar system and other equipment on roof of legal accessory structure. This plan should represent relative location of components at site, including but not limited to location of array, existing electrical service location, utility meter, inverter location, system orientation and tilt angle. This plan should show access and pathways that are compliant with NY State Fire Code, if applicable.

• One-line or 3-line electrical diagram as required by NYSERDA or Utility

• Specification sheets for all manufactured components. If these sheets are available electronically, a web address will be accepted in place of an attachment, at the discretion of the municipality.

• All diagrams and plans must be prepared by a PE or RA as required by NY State law and include the following: (A) Project address, section, block and lot number of the property; (B) Owner's name, address and phone number; (C) Name, address and phone number of the person preparing the plans; and (D) System capacity in kW-DC.

(c) Unified Solar Permit for Small-Scale Electric Systems Application. (*attached)*

(d) Permit Fee: $100.00

(e) Permit Review and Inspection Timeline: Permit determinations will be issued within thirty (30) days upon receipt of complete and accurate applications. The municipality will provide feedback within 14 days of receiving incomplete or inaccurate applications. If an inspection is required, same will be provided within 10 days of inspection request. Lewis County Code Enforcement officer will follow the NYS Unified Solar Permit Field Inspection Checklist. (*Attached*)

SECTION 5.

Lewis County Office of Code Enforcement is designated to:

(a) Administer and enforce all of the provisions of laws, ordinances and regulations applicable to the New York State Unified Solar Permit Process adopted under this Local Law and any relevant State laws, regulations and codes.

(b) Make available for all members of the public, during business hours, all necessary forms, applications, and information with relation to small-scale solar PV permit requirements, and other fire and building code requirements which may be applicable.

(c) Receive applications and any other relevant documents and issue permits for which complete eligible applications have been received after insuring compliance with laws, ordinances and regulations governing same.

(d) Issue all appropriate notices or orders to remove illegal or unsafe conditions, to require the necessary safeguards during construction and to insure compliance during the entire course of construction with the requirements of the laws, ordinances and regulations.

(e) Initiate any enforcement or prosecute any violations of this Local Law and such rules and regulations as may be promulgated hereunder or to refer such enforcement or prosecution to an appropriate department, division, officer, agent or employee of the County of Lewis.

(f) Perform such other duties as may be directed and prescribed by the Lewis County Board of Legislators or such legislative committee as may be appointed by the Board of Legislators for the purpose of overseeing the implementation and administration of this Local Law.

(g) When appropriate, require the performance of tests in the field by experienced, professional persons or by accredited and authoritative testing laboratories or service bureaus by agencies whenever necessary or appropriate to assure compliance with the provisions of applicable laws, ordinances and regulations covering solar PV projects 25kW in size or smaller.

(h) Promulgate such rules and regulations, subject to the approval of the legislative committee having jurisdiction over the Office of Code Enforcement, as within the discretion of the Senior Code Enforcement Officer, is deemed necessary for the orderly and efficient administration of the NYS Unified Solar Permit Process, the provisions of this Local Law, and any other applicable local law, rule or ordinance.

SECTION 6.

Establishment of Fees:

(a) The Board of Legislators, with the consultation from the Senior Code Enforcement Officer, hereby establishes the permit fee for this NY State Unified Solar Permit Process for Small-Scale Solar Electric Systems to be $100.00.

(b) The Board of Legislators, with the consultation of the Senior Code Enforcement Officer, may from time to time, establish a different fee amount as it shall deem necessary and appropriate for the cost of reviewing and issuing permits of eligible solar PV projects 25 kW in size or smaller within Lewis County, by Resolution adopted by the Board of Legislators. The Senior Code Enforcement Officer shall be responsible to collect and properly account for all such fees and shall deposit the same promptly with the County Clerk.

SECTION 7.

Legal Proceedings: Appropriate actions and proceedings may be taken at law or in equity to prevent unlawful construction or to restrain, correct or abate a violation or to otherwise enforce the terms and conditions of the NYS Unified Solar Permit Process for Small-Scale Solar Electric Systems having DC capacity of 25 kW or less, and any other applicable state or local law, rule, regulation or ordinance. These remedies shall be in addition to such penalties as may otherwise be prescribed by law.

SECTION 8.

Cooperation of Other Departments: The Code Enforcement Officer shall offer and receive, so far as necessary in the discharge of his or her duties, the assistance and cooperation of all municipal officials exercising jurisdiction over the construction, installation of equipment and use of small scale solar arrays therein, including but not limited to fire officials and health officials.

SECTION 9.

Severability, Savings Clause: If any clause, sentence, paragraph, part or provision of this Local Law shall for any reason be adjudged by any court or competent jurisdiction to be invalid, such judgment shall not affect, impair or invalidate the remainder of this local law, but shall be confined in its effect and operation to the clause, sentence, paragraph, part of provision thereof directly involved in the controversy in which such judgment is rendered.

SECTION 10.

Effect on existing laws and regulations: In the event the terms and provisions of this Local Law conflict with any applicable prior Local Law, regulation, rule or ordinance, the terms of this Local Law shall supersede same with respect to small-scale solar systems described herein.

SECTION 11. EFFECTIVE DATE:

This Local Law shall take effect immediately upon filing with the Secretary of State.

PERMIT APPLICATION

NY State Unified Solar Permit –

adopted by County of Lewis

Unified solar permitting is available statewide for eligible solar photovoltaic (PV) installations. Municipal authorities that adopt the unified permit streamline their process while providing consistent and thorough review of solar PV permitting applications and installations. Upon approval of this application and supporting documentation, the Lewis County Building & Codes Department will issue a building and/or electrical permit for the solar PV installation described herein. **This permit application applies only to grid-tied, small-scale solar photovoltaic (PV) installation systems having a rating of DC capacity of 25 kW or less under the NYSERDA program.**

PROJECT ELIGIBILITY FOR UNIFIED PERMITTING PROCESS

By submitting this application, the applicant attests that the proposed project meets the established eligibility criteria for the unified permitting process (subject to verification by the AHJ). The proposed solar PV system installation:

☐ Yes ☐ No 1. Has a rated DC capacity of 25 kW or less.

☐ Yes ☐ No 2. Is not subject to review by an Architectural or Historical Review Board. (If review has already been issued answer YES and attach a copy)

☐ Yes ☐ No 3. Does not need a zoning variance or special use permit. (If variance or permit has already been issued answer YES and attach a copy)

☐ Yes ☐ No 4. Is mounted on a permitted roof structure, on a legal accessory structure, or ground mounted on the applicant's property. If on a legal accessory structure, a diagram showing existing electrical connection to structure is attached.

☐ Yes ☐ No 5. The Solar Installation Contractor complies with all licensing and other requirements of the jurisdiction and the State.

☐ Yes ☐ No 6. If the structure is a sloped roof, solar panels are mounted parallel to the roof surface.

For solar PV systems not meeting these eligibility criteria, the applicant is not eligible for the Unified Solar Permit and must submit conventional permit applications. All Permit applications may be downloaded here: permits@lewiscountyny.org or obtained in person at LC Building Codes Dept., 7660 N. State Street, Lowville, NY 13367 during business hours , M -F: 8:30 am to 4:30pm.

SUBMITTAL INSTRUCTIONS

For projects meeting the eligibility criteria, this application and the following attachments will constitute the Unified Solar Permitting package.

- This application form, with all fields completed and bearing relevant signatures.
- Permitting fee of **$100.00**, payable by cash, money order, check, made payable to: **Lewis County Clerk**
- Required Construction Documents for the solar PV system type being installed, including required attachments.

Completed permit applications can be submitted electronically to permits@lewiscountyny.org or in person at LC Building Codes Dept., 7660 N. State Street, Lowville, NY 13367 during business hours, M – F: 8:30 am to 4:30 pm.

APPLICATION REVIEW TIMELINE

Permit determinations will be issued within THIRTY (30) calendar days upon receipt of **complete and accurate applications and all required documents**. The municipality will provide feedback within FOURTEEN (14) calendar days of receiving incomplete or inaccurate applications.

FOR FURTHER INFORMATION

Questions about this permitting process may be directed to LC Building Codes Dept., 7660 N. State Street, Lowville, NY 13367, (315) 376-5377.

PROPERTY OWNER

Property Owner's First Name | Last Name | Title

Property Address

City | State | Zip

Section | Block | Lot Number

EXISTING USE

☐ Single Family ☐ 2-4 Family ☐ Commercial ☐ Other

PROVIDE THE TOTAL SYSTEM CAPACITY RATING (SUM OF ALL PANELS)

Solar PV System: _____ kW DC

SELECT SYSTEM CONFIGURATION

Make sure your selection matches the Construction Documents included with this application.

☐ Supply side connection with microinverters
☐ Supply side connection with DC optimizers
☐ Supply side connection with string inverter
☐ Load side connection with DC optimizers
☐ Load side connection with microinverters
☐ Load side connection with string inverter

SOLAR INSTALLATION CONTRACTOR

Contractor Business Name

Contractor Business Address | City | State | Zip

Contractor Contact Name | Phone Number

Contractor License Number(s) | Contractor Email

Electrician Business Name

Electrician Business Address | City | State | Zip

Electrician Contact Name | Phone Number

Electrician License Number(s) | Electrician Email

Please sign below to affirm that all answers are correct and that you have met all the conditions and requirements to submit a unified solar permit.

Property Owner's Signature | Date

Solar Installation Company Representative Signature | Date

SUBMITTAL REQUIREMENTS SOLAR PV 25KW OR LESS (ATTACHMENTS)

NY State Unified Solar Permit

This information bulletin is published to guide applicants through the unified solar PV permitting process for solar photovoltaic (PV) projects 25 kW in size or smaller. This bulletin provides information about submittal requirements for plan review, required fees, and inspections.

PERMITS AND APPROVALS REQUIRED

The following permits are required to install a solar PV system with a nameplate DC power output of 25 kW or less:

a) Unified Solar Permit

b) ELECTRICAL AND/OR BUILDING PERMITS. Depending upon the local municipality site of installation, zoning approval may also be required. Confirm with the Code Officer.

c) Planning review **IS NOT** required for solar PV installations of this size.

Fire Department approval **IS NOT** required for solar PV installations of this size.

SUBMITTAL REQUIREMENTS

In order to submit a complete permit application for a new solar PV system, the applicant must include:

a) Completed Standard Permit Application form which includes confirmed eligibility for the Unified Solar Permitting process. This permit application form can be downloaded at permits@lewiscountyny.org.

b) Construction Documents, with listed attachments must be by stamped and signed by a New York State Registered Architect or New York State Licensed Professional Engineer. For further information on construction documents, go to: *Understanding Solar PV Permitting and Inspecting in New York State* at: www.nyserda.ny.gov/All-Programs/Programs/NY-Sun/Communities/Local-Government-Training-and-Resources/Solar-Guidebook-for-Local-Governments

c) Proof of Workers' Compensation Insurance by Contractors.

THE COUNTY OF LEWIS, through adopting the Unified Solar Permitting process, requires contractors to provide construction documents, such as the examples included in the *Understanding Solar PV Permitting and Inspecting in New York State* document. Should the applicant wish to submit Construction Documents in another format, ensure that the submittal includes the following information:

- Manufacturer/model number/quantity of solar PV modules and inverter(s).
- String configuration for solar PV array, clearly indicating the number of modules in series and strings in parallel (if applicable).
- Combiner boxes: Manufacturer, model number, NEMA rating.
- From array to the point of interconnection with existing (or new) electrical distribution equipment: identification of all raceways (conduit, boxes, fittings, etc.), conductors and cable assemblies, including size and type of raceways, conductors, and cable assemblies.
- Sizing and location of the EGC (equipment grounding conductor).
- Sizing and location of GEC (grounding electrode conductor, if applicable).
- Disconnecting means of both AC and DC including indication of voltage, ampere, and NEMA rating.
- Interconnection type/location (supply side or load side connection)
- For supply side connections only, indication that breaker or disconnect meets or exceeds available utility fault current rating kAIC (amps interrupting capacity in thousands).
- Ratings of service entrance conductors (size insulation type AL or CU), proposed service disconnect, and overcurrent protection device for new supply side connected solar PV system (reference NEC 230.82, 230.70).
- Rapid shutdown device location/method and relevant labeling.

d) (For Roof Mounted Systems) A roof plan showing roof layout, solar PV panels and the following fire safety items: approximate location of roof access point, location of code-compliant access pathways, code exemptions, solar PV system fire classification, and the locations of all required labels and markings.

e) Provide construction drawings with the following information:

- The type of roof covering and the number of roof coverings installed.
- Type of roof framing, size of members, and spacing.
- Weight of panels, support locations, and method of attachment.
- Framing plan and details for any work necessary to strengthen the existing roof structure.
- Site-specific structural calculations.

f) Where an approved racking system is used, provide documentation showing manufacturer of the racking system, maximum allowable weight the system can support, attachment method to roof or ground, and product evaluation information or structural design for the rack.

PLAN REVIEW

Permit applications can be submitted to the Lewis County Building Codes Dept. at 7660 N. State Street, Lowville, NY 13367 together with the permit fee.

FEES

PERMIT FEE: $100.00

INSPECTIONS

Once all permits to construct the solar PV installation have been issued and the system has been installed, it must be inspected before final approval is granted for the solar PV system. On-site inspections can be scheduled by contacting LC Building Codes Dept., 7660 N. State Street, Lowville, NY 13367 by telephone at (315) 376-5377 or electronically at permits@lewiscountyny.org.

Inspection requests received within business hours are typically scheduled for the next business day. If next business day is not available, inspection should happen within a five-day window. Lewis County accepts third party inspections for electrical inspections by electrical inspectors certified to do so.

In order to receive final approval, the following inspections are required:

Delete Rough/Final inspection descriptions if not applicable in your jurisdiction

ROUGH INSPECTION: During a rough inspection, the applicant must demonstrate that the work in progress complies with relevant codes and standards. The purpose of the rough inspection is to allow the inspector to view aspects of the system that may be concealed once the system is complete, such as:

- Wiring concealed by new construction.
- Portions of the system that are contained in trenches or foundations that will be buried upon completion of the system. All electrical rough and final inspections will be performed by third party electrical inspection agents licensed/certified to do so.

It is the responsibility of the applicant to notify LC Building Codes Dept. and third party electrical inspection agent before the components are buried or concealed and to provide safe access (including necessary climbing and fall arrest equipment) to the inspector(s).
The inspector will attempt, if possible, to accommodate requests for rough inspections in a timely manner.

FINAL INSPECTION: The applicant must contact LC Building Codes Dept (and third party electrical inspector, if required) when ready for a final inspection. During this inspection, the inspector will review the complete installation to ensure compliance with codes and standards, as well as confirming that the installation matches the records included with the permit application. The applicant must have ready, at the time of inspection, the following materials and make them available to the inspector:

- Copies of as-built drawings and equipment specifications, if different than the materials provided with the application.

- Photographs of key hard to access equipment, including;
  - Example of array attachment point and flashing/sealing methods used.
  - Opened rooftop enclosures, combiners, and junction boxes.
  - Bonding point with premises grounding electrode system.
  - Supply side connection tap method/device.
  - Module and microinverter/DC optimizer nameplates.
  - Microinverter/DC optimizer attachment.

g) THE COUNTY OF LEWIS has adopted a standardized field inspection checklist, which can be found in the New York State Unified Solar Permit document, found at: www.nyserda.ny.gov/All-Programs/Programs/NY-Sun/Communities/Local-Government-Training-and-Resources/Solar-Guidebook-for-Local-Governments

The inspection checklist provides an overview of common points of inspection that the applicant should be prepared to show compliance. If not available, common checks include the following:

- Number of solar PV modules and model number match plans and specification sheets number match plans and specification sheets.
- Array conductors and components are installed in a neat and workman-like manner.
- Solar PV array is properly grounded.
- Electrical boxes and connections are suitable for environment.
- Array is fastened and sealed according to attachment detail.
- Conductor's ratings and sizes match plans.
- Appropriate signs are property constructed, installed and displayed, including the following:
  - Sign identifying PV power source system attributes at DC disconnect.
  - Sign identifying AC point of connection.
  - Rapid shutdown device meets applicable requirements of NEC 690.12.
- Equipment ratings are consistent with application and installed signs on the installation, including the following:
  - Inverter has a rating as high as max voltage on PV power source sign.
  - DC-side overcurrent circuit protection devices (OCPDs) are DC rated at least as high as max voltage on sign.
  - Inverter is rated for the site AC voltage supplied and shown on the AC point of connection sign.
  - OCPD connected to the AC output of the inverter is rated at least 125% of maximum current on sign and is no larger than the maximum OCPD on the inverter listing label.
  - Sum of the main OCPD and the inverter OCPD is rated for not more than 120% of the buss bar rating.

UNIFIED SOLAR PERMITTING RESOURCES

The County of Lewis has adopted the following documents from the New York Unified Solar Permit process:

- Standard Application : New York State Unified Solar Permit Application at: www.nyserda.ny.gov/All-Programs/Programs/NY-Sun/Communities/Local-Government-Training-and-Resources/Solar-Guidebook-for-Local-Governments
- Field Inspection Checklist found under New York State Unified Solar Permit at: www.nyserda.ny.gov/All-Programs/Programs/NY-Sun/Communities/Local-Government-Training-and-Resources/Solar-Guidebook-for-Local-Governments

DEPARTMENTAL CONTACT INFORMATION

For additional information regarding this permit process, please consult our departmental website at permits@lewiscountyus.org, or contact Lewis County Building Codes Dept. at (315) 376-5377.

I the undersigned, Code Enforcement Officer of the County of Lewis Hereby (Approve) (Deny) the within Application.

Date_____ Code Enforcement Officer _____

FIELD INSPECTION CHECKLIST

New York State Unified Solar Permit

All photos referenced in the checklists below are located in Appendix C of *Understanding Solar PV Permitting and Inspecting in New York State* which can be found at nyserda.ny.gov/SolarGuidebook

Array

1.	Circuit conductors are properly supported and are not touching the roof surface [NEC 338.10(B)(4) and NEC 334.30] (Photo 10)	N	Y	N/A
2.	Circuit conductors are same conductor type/size as on plan set	N	Y	N/A
3.	Module count matches plan set. If no, investigate stringing configuration (Photo 3)	N	Y	N/A
4.	Module manufacturer/model matches plan set. (Photo 4)	N	Y	N/A
5.	Modules are effectively grounded using lugs, WEEBs, or a racking integrated grounding method [NEC 690.43] (Photo 9)	N	Y	N/A
6.	Modules and racking are properly secured (Photos 5, 6, 7)	N	Y	N/A
7.	DC optimizers are properly grounded [NEC 690.43 and NEC 110.3(B)]	N	Y	N/A
8.	Wire ties are UV-rated (generally black) (Photo 10)	N	Y	N/A
9.	All electrical connections are secured to ensure no arcing	N	Y	N/A
10.	Racking system is properly grounded (EGC bonding the rails, [NEC 690.43]) (Photo 8)	N	Y	N/A
11.	Conductors are properly identified (ungrounded, grounded, grounding) [NEC 200.7, NEC 200.6, NEC 250.119] (Photo 13)	N	Y	N/A
12.	Outdoor components are UL-listed for the environment [NEC 110.3(B)]	N	Y	N/A
13.	Roof vents are not covered by the modules (2015 IRC/2015IBC) (Photo 3)	N	Y	N/A
14.	DC conduit is labeled "WARNING: PHOTOVOLTAIC POWER SOURCE" every 10 feet, and is reflective, and meets color and size requirements [NEC 690.31(G)(3) and (4)]	N	Y	N/A

DC Optimizer

1.	DC Optimizer chassis is properly grounded per manufacturer's instructions [NEC 690.43, NEC 250 NEC 110.3(B)]	N	Y	N/A
2.	EGC is protected if smaller than #6AWG [NEC 690.46 and NEC 250.120] (Photo 9)	N	Y	N/A
3.	DC Optimizer GEC is sufficiently sized per manufacturer instructions [NEC 690.47(C), NEC 250.66, NEC 250.122, NEC 250.166]	N	Y	N/A
4.	Rapid Shutdown label is present and meets the requirements of NEC 690.56(C).	N	Y	N/A
5.	DC Output circuit conductor insulation type is rated for environment (Shall not be type: USE-2, THWN-2, RHW-2) [NEC 310.10].	N	Y	N/A

Note 1: Many violations from the "Array" section also apply to the "DC Optimizer" section.

Note 2: DC optimizer can have an integrated ground, or not. Bring the specifications sheet to the inspection for quick reference.

Structural (Roof-Mounted Only)

1.	All roof penetrations are properly flashed and sealed 2015 IRC/ 2015 IBC (Photos 6,12)	N	Y	N/A
2.	Rafter spacing/material matches construction documents	N	Y	N/A
3.	Roof appears to be in good condition, with no signs of leaking or damage. Roof is free of debris. (Photo 3)	N	Y	N/A
4.	All racking splices are properly supported per manufacturer requirements (generally splices must be supported on both sides of the joint by a structural attachment)	N	Y	N/A
5.	Modules cannot be moved by pushing or pulling with one hand (Photo 7)	N	Y	N/A

Junction Box

1. Wire nuts and splices are suitable for the environment [NEC 110.3(B), NEC 110.14, NEC 110.28] (Photo 13)	N	Y	N/A
2. Junction box is UL listed for the environment [NEC 110.3(B)] (Photo 14)	N	Y	N/A
3. Junction box is properly grounded [NEC 690.43(A), NEC 250.4, NEC 110.3(B)]	N	Y	N/A
4. Grounding equipment is properly installed (NEC 690.43, NEC 250.8, NEC 250.12) (Photo 13)	N	Y	N/A

Inverter

1. The number of strings match the plan set. (Photo 18)	N	Y	N/A
2. The conductors have sufficient ampacity for each string.	N	Y	N/A
3. DC conductors in metal when on or inside a building [NEC 690.31(G)] (Photos 11, 12)	N	Y	N/A
4. Conduit penetrations are properly sealed between conditioned and unconditioned space [NEC 300.7(A)]	N	Y	N/A
5. Conduit is properly supported e.g., [LFMC NEC 350.30, EMT NEC 358.30, PVC NEC 352.30] (Photo 15)	N	Y	N/A
6. Conduit is not being used as conductor support [NEC 300.11(B)] (Photo 15)	N	Y	N/A
7. The enclosure is properly grounded [NEC 690.43, NEC 250.8, NEC 250.12] (Photo 16)	N	Y	N/A
8. Grounding equipment is properly installed [NEC 690.43, NEC 250.8, NEC 250.12] (Photos 16, 19)	N	Y	N/A
9. Enclosure is labeled as a PV disconnect [NEC 690.13(B)]	N	Y	N/A
10. DC characteristics label is present [NEC 690.53]	N	Y	N/A
11. The ungrounded DC conductors are properly identified (shall not be white, gray, or white striped) [NEC 200.7(A)] (Photo 16)	N	Y	N/A
12. Max string voltage below inverter max [NEC 110.3(B) and NEC 690.7]	N	Y	N/A
13. Inverter string fuses are rated for use in application [NEC 690.9]	N	Y	N/A
14. DC and AC disconnecting means are located within sight of or in each inverter [NEC 690.15 (A)] (Photos 15, 18)	N	Y	N/A
15. AFCI protection is present and enabled [NEC 690.11]	N	Y	N/A
16. System is equipped with Rapid Shutdown [NEC 690. 12]	N	Y	N/A
17. System is marked with a permanent label with the following wording: "PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN" [NEC 690.56(C)]	N	Y	N/A

Microinverter

1. Microinverter chassis is properly grounded per manufacturer's instructions [NEC 690.43(A), 250.4, 110.3(B)]	N	Y	N/A
2. EGC is protected if smaller than #6 AWG [NEC 690.46 and 250.120(C)] (Photo 5)	N	Y	N/A
3. Microinverter GEC is sufficiently sized per manufacturer instructions [NEC 690.47(C), NEC 250.66, NEC 250.122, NEC 250.166]	N	Y	N/A
4. Rapid Shutdown label is present and meets the requirements of [NEC 690.56(C)]	N	Y	N/A

Note 1: Many items from the "Array" section also apply to the "Microinverter" section.

Note 2: Microinverters can have an integrated ground, or not. This information is found on the specification sheet.

Note 3: As long as the microinverters are listed, they are inherently equipped with rapid shutdown, which is required by NEC Article 690.12. This does not negate the label requirement in 690.56(C).

AC Combiner

1. The number of branch circuits match the plan set. (Photo 20)	N	Y	N/A
2. The conductors have sufficient ampacity for each branch circuit.	N	Y	N/A
3. The Overcurrent Protective Device (OCPD) for the conductors have a rating sufficient to protect them [NEC 240.4] (Photo 20)	N	Y	N/A
4. Conduit penetrations are properly sealed between conditioned and unconditioned space [NEC 300.7(A)]	N	Y	N/A
5. Conduit is properly supported e.g., [LFMC NEC 350.30, EMT NEC 358.30, PVC NEC 352.30] (Photo 15)	N	Y	N/A
6. Conduit is not being used as conductor support [NEC 300.11(B)] (Photo 15)	N	Y	N/A
7. The enclosure is properly grounded [NEC 690.43, NEC 250.8, NEC 250.12] (Photo 20)	N	Y	N/A
8. Grounding equipment is properly installed [NEC 690.43, NEC 250.8, NEC 250.12] (Photo 20)	N	Y	N/A
9. Enclosure is labeled as a disconnect [NEC 690.13]	N	Y	N/A
10. AC characteristics label is present (voltage and amperage), [NEC 690.54]	N	Y	N/A
11. "Multiple Sources" indication label is present [NEC 705.12(D)(3)]	N	Y	N/A
12. The sum of all overcurrent devices (excluding main) do not exceed the rating of the buss bar [NEC 705.12(D)(2)(3)(c)]	N	Y	N/A
13. The enclosure is labeled "Do Not Add Loads" [NEC 705.12(D)(2)(3)(c)]	N	Y	N/A
14. The main breaker is fastened in place [NEC 408.36(D)]	N	Y	N/A
15. Grounded conductors are isolated from enclosure [NEC 250.24(A)(5)] (Photo 20)	N	Y	N/A

Load-Side Connection

1. Circuit conductors have sufficient ampacity [NEC 690.8, 310.15]	N	Y	N/A
2. The OCPD is sufficient to protect the circuit conductors [NEC 240.4]	N	Y	N/A
3. Grounded conductors properly identified [NEC 200.6(A)&(B)]	N	Y	N/A
4. The GEC is present and sufficiently sized [NEC 690.47(C), NEC 250.66, NEC 250.122, NEC 250.166]	N	Y	N/A
5. The GEC is continuous (or irreversibly spliced) [NEC 250.64(C), 690.47(C)]	N	Y	N/A
6. Ferrous conduit and the enclosure are appropriately bonded to the GEC [NEC 250.64(E), NEC 250.4(A)(5)]	N	Y	N/A
7. PV breakers are properly identified [NEC 408.4(A)] (Photo 23)	N	Y	N/A
8. AC characteristics label is present and suitable for the environment (voltage and amperage) [NEC 690.54, NEC 110.21]	N	Y	N/A
9. Dissimilar metals are separated and will not cause a galvanic reaction [(NEC 110.14, RMC NEC 344.14, EMT NEC 358.12(6)]	N	Y	N/A
10. Inverter directory present [NEC 690.15(A) and NEC 705.10]	N	Y	N/A
11. Backfed breaker sized to protect circuits [NEC 690.8(B)(1) and/or NEC 310.15]	N	Y	N/A
12. Source breakers follow 120% rule [NEC 705.12(D)(2)(3)(b)]	N	Y	N/A
13. Backfed breaker properly located in panel [NEC 705.12(D)(2)(3)(b)] (Photo 23)	N	Y	N/A
14. Clearances maintained/live parts secured [NEC 110.27(A) and NEC 110.26] (Photo 18)	N	Y	N/A

Supply Side Connection

1. Disconnect is service-rated and has a current rating of at least 60 Amp [NEC 230.79(D)] (Photo 22)	N	Y	N/A
2. Circuit conductors have sufficient ampacity [NEC 690.8, NEC 310.15]	N	Y	N/A
3. New service entrance conductors are less than 10 feet [NEC 705.31] (Photo 18)	N	Y	N/A
4. The OCPD is sufficient to protect the circuit conductors [NEC 240.4] (Photo 21)	N	Y	N/A
5. The disconnect utility conductors are on LINE terminals [NEC 110.3(B), NEC 240.40(if fusible)]	N	Y	N/A
6. There is no OCPD in the grounded conductor [NEC 230.90(B)] (Photo 21)	N	Y	N/A
7. The AIC rating on the OCPD meets, or exceeds the rating of other main OCPD on the premises [NEC 110.9, NEC 110.10]	N	Y	N/A
8. The neutral is bonded to the PV disconnect enclosure/GEC [NEC 250.24(C)]	N	Y	N/A
9. The GEC is present and sufficiently sized [NEC 690.47(C), NEC 250.66, NEC 250.122, NEC 250.166] (Photo 24)	N	Y	N/A
10. The GEC is continuous (or irreversibly spliced) [NEC 250.64(C), NEC 690.47(C)]	N	Y	N/A
11. Ferrous conduit and the enclosure are appropriately bonded to the GEC [NEC 250.64(E), NEC 250.4(A)(5)] (Photo 24)	N	Y	N/A
12. AC characteristics label is present and suitable for the environment (voltage and amperage) [NEC 690.54, NEC 110.21]	N	Y	N/A
13. Power source directory is present, denoting all locations of power sources and disconnects on premises, at each service equipment location [NEC 110.21, NEC 690.56, NEC 705.10]	N	Y	N/A
14. AC disconnect label is present and suitable for the environment (NEC 690.13(B), NEC 110.21]	N	Y	N/A
15. Dissimilar metals are separated and will not cause a galvanic reaction [NEC 110.14, RMC NEC 344.14, EMT NEC 358.12(6)]	N	Y	N/A

General

1. Work is done in a neat and workmanlike manner [NEC 110.12] (Photos 5, 10, 13, 28)	N	Y	N/A
2. Working clearances are observed per NEC 110.26 (Photo 18)	N	Y	N/A

(Complete the certification in the paragraph that applies to the filing of this Local Law and strike out that which is not applicable)

1. (Final Adoption by Local Legislative Body Only.)

I hereby certify that the Local Law annexed hereto, designated as Local Law No. 3 of 2017, of the County of Lewis was duly passed by the Lewis County Board of Legislators on May 2, 2017, in accordance with the applicable provisions of law.

~~**2. (Passage by Local Legislative Body with Approval, No Disapproval or Repassage After Disapproval by the Elective Chief Executive Officer*).**~~

~~I hereby certify that the Local Law annexed hereto, designated as Local Law No. ____ of 20__, of the County, City, Town, Village of _____ was duly passed by the _____ on _____, 20__, and was approved, not approved, repassed after disapproval, by the _____, and was deemed duly adopted on _____, 20__, in accordance with the applicable provisions of law.~~

~~**3. (Final Adoption by Referendum.)**~~

~~I hereby certify that the Local Law annexed hereto, designated as Local Law No. ____ of 20__, of the County, City, Town, Village of _____ was duly passed by the _____ on _____, 20__, and was approved, not approved, repassed after disapproval, by the _____ on _____, 20__. Such Local Law was submitted to the people by reason of a mandatory/permissive referendum, and received the affirmative vote of a majority of the qualified electors voting thereon at the general/special/annual election held on _____, 20__, in accordance with the applicable provisions of law.~~

~~**4. (Subject to a Permissive Referendum and Final Adoption Because No Valid Petition was Filed Requesting Referendum.)**~~

~~I hereby certify that the Local Law annexed hereto, designated as Local Law No. ____ of 20__, of the County of Lewis was duly passed by the Lewis County Board of Legislators on , 20__, and was approved, not approved, repassed after disapproval, by the _____ on _____, 20__. Such Local Law was subject to permissive referendum and no valid petition requesting such referendum was filed as of , 20__, in accordance with the applicable provisions of law.~~

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* Elective Chief Executive Officer means or includes the chief executive officer of a county elected on a county-wide basis, or if there be none, the chairman of the county legislative body, the mayor of a city or village, or the supervisor of a town where such officer is vested with the power to approve or veto Local Laws or Ordinances.

~~5. (City Local Law Concerning Charter Revision Proposed by Petition.)~~

~~I hereby certify that the Local Law annexed hereto, designated as Local Law No. _____ of 20__, of the City of _____ having been submitted to referendum pursuant to the provisions of Section (36)(37) of the Municipal Home Rule Law, and having received the affirmative vote of a majority of the qualified electors of such city voting thereon at the special/general election held on _____, 20__, became operative.~~

~~6. (County Local Law Concerning Adoption of Charter.)~~

~~I hereby certify that the Local Law annexed hereto, designated as Local Law No. _____ of 20__, of the County of _____, State of New York, having been submitted to the electors at the General Election of November _____, 20__, pursuant to the subdivisions 5 and 7 of Section 33 of the Municipal Home Rule Law, and having received the affirmative vote of a majority of the qualified electors of the cities of said county as a unit and of a majority of the qualified electors of the towns of said county considered as a unit voting at said general election, became operative.~~

(If any other authorized form of final adoption has been followed, please provide an appropriate certification).

I further certify that I have compared the preceding Local Law with the original on file in this office and that the same is a correct transcript therefrom and of the whole of such original Local Law, and was finally adopted in the manner indicated in Paragraph 1, above.

Teresa Clark

TERESA CLARK, CLERK
LEWIS COUNTY BOARD OF LEGISLATORS

(Seal)

Dated: May 3, 2017.

(Certification to be executed by County Attorney, Corporation Counsel, Town Attorney, Village Attorney or other authorized Attorney of locality.)

STATE OF NEW YORK)
COUNTY OF LEWIS) ss:

I, the undersigned, hereby certify that the foregoing Local Law contains the correct text and that all proper proceedings have been had or taken for the enactment of the Local Law annexed hereto.

JOAN E. McNICHOL, ESQ.
LEWIS COUNTY ATTORNEY

Dated: May 3, 2017.