

CITY OF COLUMBIA, MO
INTERCONNECTION AND NET METERING AGREEMENT
Solar Power Electric Generating System Greater than 100 kW

THIS AGREEMENT (hereinafter "Agreement") is by and between the City of Columbia, Missouri (hereinafter "City"), a municipal corporation whose address is 701 E. Broadway Columbia, MO 65201 and the Diocese of Jefferson City Real Estate Corporation, a Missouri nonprofit corporation, as Trustee under Indenture of Trust, Diocese of Jefferson City Real Estate Trust dated July 1, 2008 (hereinafter "Customer"), a business with the authority to transact business within the State of Missouri, and is entered into on the date of the last signatory below (hereinafter "Effective Date"). City and Customer are each individually referred to herein as a "Party" and collectively as the "Parties."

WHEREAS, City owns and operates an electric distribution system and provides electric services to Customer;

WHEREAS, Customer wishes to construct, operate and maintain an approved solar power electric generating facility with a capacity of more than one hundred (100) kilowatts, this facility will be on Customer's premises and it is intended primarily to offset part or all of Customer's own electrical energy requirements; and

WHEREAS, both Parties wish for Customer's facility to be permanently interconnected with the City's electric distribution system and for Customer to receive a customer-generator rate for energy that this facility produces.

NOW, THEREFORE, in consideration of the mutual covenants set out in this Agreement and for other good and valuable consideration (the receipt and sufficiency of which is hereby acknowledged), the Parties agree as follows:

1. FACILITY DEFINITION.

For purposes of this Agreement, "Facility" shall mean a solar powered electric generating facility, the details and location of which are attached hereto as **Exhibit A** and made a part of this Agreement.

2. CUSTOMER RESPONSIBILITIES

2.1. **Construction & Operation of Facility.** Customer agrees to accept responsibility for the design, construction, installation and operation of this Facility. Customer agrees to obtain all necessary governmental and regulatory permits for the construction and operation of Facility, including those required by the City, prior to any construction or installation thereof. Customer agrees to bear all costs for equipment and labor to interconnect the Facility to the City's electric distribution system. This includes, but is not limited to, all equipment necessary to maintain automatic synchronism with the City's electric distribution system and automatic disconnect between the Facility and the City's electric distribution system in the event of overload or outage of the City's electric distribution system. Facility must be designed to operate within allowable

operating standards for the City's electric distribution system. Customer agrees to reimburse City for any and all losses, damages, claims, penalties or liability that may arise from operations of the Facility. Customer agrees to maintain all equipment on the Customer's side of the delivery point, including the required disconnect device, in satisfactory operating condition consistent with the terms of this Agreement. Customer agrees to operate and maintain Facility at all times within the allowable operating standards for the City's electric distribution system and failure to do so will result in the disconnection of the Facility until the problem can be corrected.

2.2. **Facility Costs.** Customer shall be responsible for the cost, maintenance and operation of all labor and equipment on the Customer's side of the delivery point, including the required disconnect device, and to maintain any such equipment in satisfactory operating condition. Customer shall install any necessary interconnecting equipment or metering with the prior approval by City.

2.3. **Modification of Facility.** Customer shall make no Modifications to Facility without receipt of authorization from the City in writing. For purposes of this Agreement, Modifications shall mean any expansion of the Facility or any changes that may have a material impact on the safety or reliability of the City's electric transmission system. The design, installation and construction of the Modifications shall be subject to the City's review and approval. Any Modifications authorized by the City shall be done in accordance with reasonable skill, care and diligence and in accordance with the generally accepted standards of good professional practices in effect at the time of the modification.

2.4. **Pre-Operation Inspection.** Prior to interconnection, Customer shall obtain an electrical permit from the City allowing the attachment of Facility to the City's electric distribution system. Facility and associated interconnection equipment shall be inspected and approved by a designated inspector of the City prior to interconnection.

3. CITY REIMBRUSEMENT AMOUNT FOR FACILITY CONSTRUCTION UNDER CITY'S COMMERCIAL ENERGY EFFICIENCY PROGRAM

3.1. **Reimbursement Amount.** City agrees to provide Customer with a reimbursement for Facility construction of up to 100 kW capacity in an amount Customer's Facility qualifies for as determined by the terms of the City's Photovoltaic System Rebate, Interconnection, and Net Metering Guidelines (hereinafter "Net Metering Guidelines"), attached hereto as **Exhibit B** and made a part of this Agreement.

3.2. **NOT TO EXCEED.** It is expressly understood by both Parties that in no event will the total amount of reimbursement to be paid by City under this Agreement exceed **Fifty Thousand Dollars (\$50,000)**, unless otherwise agreed to by both Parties in writing and executed as an amendment to this Agreement.

3.3. **Reimbursement Billing and Payment.** The billing and payment procedures for reimbursement provided in this Article 3 shall be consistent with the Net Metering Guidelines, attached hereto as Exhibit B.

4. NET METERING

4.1. **Renewable Energy Credits.** For purposes of this Agreement, both Parties accept the definition of Renewable Energy Credit (hereinafter “REC”) as defined in the City’s Code of Ordinances, Section 27-36. Customer elects to treat all RECs generated by the Facility in the following manner:

 X BHR

Customer elects to sell the energy and all RECs generated by the Facility to the City.

Customer elects to sell the energy to the City but retain and retire all the RECs generated by the Facility.

4.2. **Credit Amounts.** Both Parties agree that Customer shall receive net metering credits for the energy generated by Facility in an amount equivalent to those prescribed by Chapter 27 of the City’s Code of Ordinances, as amended, for solar generating facilities with a capacity of 100 kW or less. Customer further agrees to be bound by all other terms and provisions of Chapter 27 of the City’s Code of Ordinances with respect to accounts and billing.

4.3. **Change in Use of RECs.** Customer shall provide notice to the City in writing prior to any change in use of RECs as provided in Section 4.1 of this Agreement. If Customer fails to provide notice as required herein, then City is entitled to collect any amounts outstanding from Customer after billing adjustments and City may exercise any other rights available to it by law.

5. OPERATION, DISCONNECTION

5.1. **Interconnection Standards.** Customer is responsible for ensuring the Facility complies with all applicable safety, performance, synchronization, interconnection and reliability standards established by the Missouri Public Service Commission, the National Electrical Safety Code, National Electrical Code, the Institute of Electrical and Electronics Engineers, and Underwriters Laboratories for distributed generation. The following standards shall also be met for solar systems:

a. National Electric Code, including but not limited to NEC Articles 690 (guidelines outlining the installation of the system including structural and electrical components) Section 690.12 (rapid shut down requirement) and NEC 705 – regarding the safety and warning signs of the system.

b. Underwriters Laboratories (UL) including but not limited to UL 1741 (Standard for Static Inverters and Charge Controllers for Use in Photovoltaic Systems) and UL 1703 (Standard for Safety: Flat Plate Photovoltaic Modules and Panels).

c. Institute of Electrical and Electronics Engineers (IEEE) Standards including but not limited to 1547-2003 (Standard for Interconnecting Distributed Resources with Electric Power Systems).

5.2. **Over-Current Protection.** Customer agrees to provide an over-current protective device at the service panel that is dedicated only to the Facility and is capable of interrupting the maximum available fault current. The over-current protective device shall be clearly marked to indicate power source and the connection to the City's system.

5.3. **Disconnection.**

a. *Disconnection Switch.* Customer agrees to install a manual, lockable, load-break disconnect switch with clear indication of the switch position in a location at or near the main point of service that is easily visible and accessible to City staff. The disconnect switch shall provide a point of separation between the Facility and the City's electric system.

b. *Disconnection.* City may disconnect the Facility from the City's electric system for any reason that the City deems necessary, including but not limited to, maintenance, emergency work, unsafe or hazardous conditions, adverse effects to the City's electric service or other Customers, or for any failure of the facility to comply with codes and/or regulations. Should the Facility be disconnected and locked by the City for any reason, the Customer agrees to not remove, tamper or bypass the disconnect for any reason until such time that CWL has approved the restoration of the interconnection between the Facility and the City's electric system.

c. *Right of Access.* City employees shall have the right to enter onto the premises of the Facility and have access to the Facility for purposes in connection with the performance of the obligations imposed on it by this Agreement including inspection and disconnection of the Facility, maintaining City property, or meet its legal obligation to provide service to its customers.

6. **TERM AND TERMINATION**

6.1 **Term of Agreement.** The initial term of this Agreement shall be ten (10) years commencing on the Effective Date. Thereafter the term of this Agreement shall automatically renew for two, successive five (5) year terms unless otherwise terminated as provided for herein.

6.2. **Termination for Convenience.** Either Party may terminate this Agreement at any time by providing the other Party with sixty (60) days' written notice.

6.3. **Termination for Default.** If either Party fails to perform its duties and obligations provided for herein, then that Party shall be in default. The non-defaulting Party may provide notice of the default in writing with reasoning provided. If the default is not cured within fifteen (15) calendar days from receipt of the written notice of default, then the non-defaulting Party may terminate this Agreement in whole or in part for failure to perform by providing written notice of termination. The written notice of termination will be effective immediately upon its receipt. In such event, the defaulting Party shall be liable for all damages (including all costs and attorney's fees) arising out of or related to the default.

7. INSURANCE

Customer agrees to maintain, on a primary basis and at its sole expense, at all times during this life of this Agreement, the following insurance coverages, limits, including endorsements described herein. The requirements contained herein as well as City's review or acceptance of insurance maintained by Customer is not intended to and shall not in any manner limit or qualify the liabilities or obligations assumed by Customer under this Agreement.

Commercial General Liability. Customer agrees to maintain Commercial General Liability at a limit of liability \$2,000,000 Each Occurrence, \$3,000,000 Annual Aggregate. Coverage shall not contain any endorsement(s) excluding nor limiting Contractual Liability or Cross Liability.

Contractor may satisfy the minimum liability limits required for Commercial General Liability under an Umbrella or Excess Liability policy. There is no minimum per occurrence limit of liability under the umbrella or Excess Liability; however, the Annual Aggregate limit shall not be less than the highest "each Occurrence" limit for Commercial General Liability.

Additional Insured. Customer agrees to endorse City as an Additional Insured with a CG 2026 Additional Insured – Designated Person or Organization endorsement, or similar endorsement, to the Commercial General Liability. The Additional Insured shall read "City of Columbia, Missouri."

Certificate of Insurance. Customer agrees to provide City with Certificate of Insurance evidencing that all coverages, limits and endorsements required herein are maintained and in full force and effect. Said Certificate of Insurance shall include a minimum thirty (30) day endeavor to notify due to cancellation or non-renewal of coverage. The Certificate of Insurance shall name the City as additional insured in an amount as required in this Agreement and contain a description of the project or work to be performed.

The Parties hereto understand and agree that City is relying on, and does not waive or intend to waive by any provision of this Agreement, any monetary limitations or any other rights, immunities, and protections provided by the State of Missouri, as from time to time amended, or otherwise available to City, or its elected officials or employees.

Failure to maintain the required insurance in force may be cause for termination of this Agreement. In the event Customer fails to maintain and keep in force the required insurance or to obtain coverage from its contractors, City shall have the right to cancel and terminate this Agreement without notice.

The insurance required by this Agreement is required in the public interest and City does not assume any liability for acts of Customer and/or their employees and/or their contractors in the performance of this Agreement.

8. MISCELLANEOUS

8.1. **Hold Harmless Agreement.** To the fullest extent not prohibited by law, Customer shall indemnify and hold harmless City, its directors, officers, agents, and employees from and against all claims, damages, losses, and expenses (including but not limited to attorney’s fees) arising by reason of any act or failure to act, negligent or otherwise of Customer, of any subcontractor (meaning anyone including but not limited to consultants having a contract with Customer) or a subcontractor for part of the services), of anyone directly or indirectly employed by Customer or by any subcontractor, or anyone for whose acts Customer or its subcontractor may be liable, in connection with providing these services. This provision does not, however, require Customer to indemnify, hold harmless, or defend City from its own negligence.

8.2. **No Waiver of Immunities.** In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for either Party’s rights or defenses with regard to each Party’s applicable sovereign, governmental, or official immunities and protections as provided by federal and state constitution or laws.

8.3. **Governing Law and Venue.** This Agreement shall be governed, interpreted and enforced in accordance with the laws of the State of Missouri and/or the laws of the United States, as applicable. The venue for all litigation arising out of, or relating to this Agreement, shall be in Boone County, Missouri, or the United States Western District of Missouri. The Parties hereto irrevocably agree to submit to the exclusive jurisdiction of such courts in the State of Missouri.

8.4. **General Laws.** Customer shall comply with all federal, state and local laws, rules, regulations and ordinances.

8.5. **Notices.** Any notice, demand, request or communication required or authorized by this Agreement shall be delivered either by hand or mailed by certified mail, return receipt request, with postage prepaid to:

IF TO CITY:

City of Columbia, MO
Utilities Department
ATTN: Director of Utilities
P.O. Box 6015
Columbia, MO 65205-6015

IF TO CUSTOMER:

Diocese of Jefferson City Real Estate Corporation
Alphonse J. Schwartz Memorial Catholic Center
ATTN: Benjamin Roodhouse
2207 W. Main St.
Jefferson City, MO 65109

The notice shall be deemed to have been completed when sent by certified or registered mail to the other Party at the address set forth herein, or delivered in person to said Party or their authorized representatives.

8.6. **No Third-Party Beneficiary.** No provision of this Agreement is intended to, nor shall it in any way, inure to the benefit of any customer, property owner or any other third party, so as to constitute any such person a third-party beneficiary under this Agreement.

8.7. **Amendment.** No amendment, addition to, or modification of any provision hereof shall be binding upon the Parties, and neither Party shall be deemed to have waived any provision or any remedy available to it, unless such amendment, modification or waiver is in writing and signed by a duly authorized officer or representative of the applicable Party or Parties.

8.8. **Assignment.** Neither City nor Customer shall assign, sublet or transfer interest in the Agreement without the signed written consent of the other Party.

8.9. **Contract Documents.** The Contract Documents include this Agreement and the following attachments and exhibits which are incorporated herein by reference:

Exhibit:

- A Facility Description
- B Interconnection and Net Metering Guidelines

In the event of a conflict between the terms of any of the Contract Documents and the terms of this Agreement, the terms of this Agreement control.

8.10. **Entire Agreement.** This Agreement represents the entire and integrated agreement between the Parties relative to the contracted services herein. All previous or contemporaneous contracts, representations, promises and conditions relating to the contracted services herein are superseded.

[SIGNATURES ON THE FOLLOWING PAGE]

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement by their duly authorized representatives as of the date of the last signatory to this Agreement.

CITY OF COLUMBIA, MISSOURI

By: _____
De'Carlton Seewood, City Manager

Date: _____

 E.K.

ATTEST:

Sheela Amin, City Clerk

APPROVED AS TO FORM:

Nancy Thompson, City Counselor / ek

CERTIFICATION: I hereby certify that this Agreement is within the purpose of the appropriation to which it is to be charged, Account No. 17430908-505007, and that there is an unencumbered balance to the credit of such appropriation sufficient to pay therefor.

E-SIGNED by Matthew Lue
on 2026-03-09 23:16:46 GMT

Matthew Lue, City Director of Finance

 A.W.

Diocese of Jefferson City Real Estate Corporation

By:  _____

Printed Name: Benjamin Roadhouse

Title: Vice President

Date: 3/6/2026

CITY OF COLUMBIA ZONING: MULTIPLE-FAMILY DWELLING [R-MF]

CONSTRUCTION TYPE: 2C

OCCUPANCY: ASSEMBLY GROUP [A-4]

Exhibit A

ST. THOMAS MORE NEWMAN CENTER

PHOTOVOLTAIC SYSTEM

602 TURNER AVE.
COLUMBIA, MO, 65201

SYSTEM SIZE: 177.48 kW-DC | 150 kW-AC

MODULE: (306) SILFAB SIL-580 XM+ [580W]

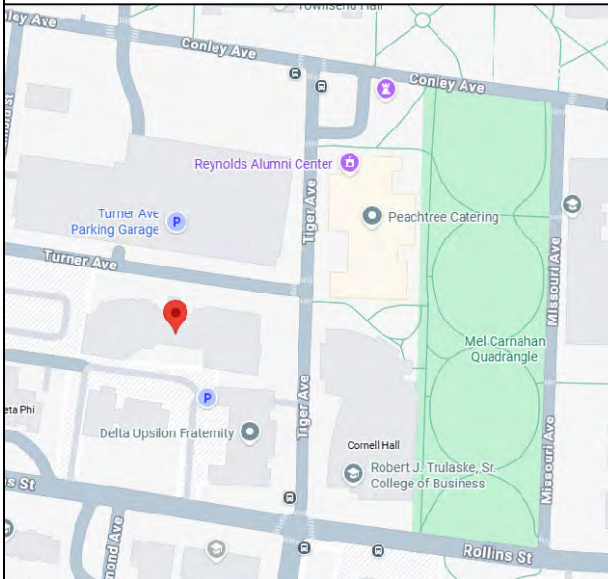
INVERTER: (3) Sunny Tripower CORE1 50-US INVERTER EQUIPPED WITH RAPID SHUTDOWN

RAPID SHUTDOWN MODULE: (153) AP SMART RSD-D

GOVERNING CODES

ALL MATERIALS, EQUIPMENT, INSTALLATION AND WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- 2018 ICC
- 2018 IFC
- 2017 NEC
- IEEE STANDARD 929
- UL STANDARD 1741
- OSHA 29 CFR 1910.269
- WHERE APPLICABLE, RULES OF THE PUBLIC UTILITIES COMMISSION REGARDING SAFETY AND RELIABILITY.
- THE AUTHORITY HAVING JURISDICTION
- MANUFACTURER'S LISTINGS AND INSTALLATION INSTRUCTIONS



VICINITY MAP



AERIAL MAP

GENERAL

- UTILITY SHALL BE NOTIFIED BEFORE ACTIVATION OF PHOTOVOLTAIC SYSTEM.
- 110.2 APPROVAL: ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO INITIATING CONSTRUCTION.
- CONTRACTOR SHALL REVIEW ALL MANUFACTURER INSTALLATION DOCUMENTS PRIOR TO INITIATING CONSTRUCTION.
- ALL EQUIPMENT AND ASSOCIATED CONNECTIONS, ETC, AND ALL ASSOCIATED WIRING AND INTERCONNECTIONS SHALL BE INSTALLED ONLY BY QUALIFIED PERSONNEL.
- THE CONTRACTOR OR OWNER MUST PROVIDE ROOF ACCESS (LADDER TO ROOF) FOR ALL THE REQUIRED INSPECTIONS. LADDERS MUST BE OSHA APPROVED, MINIMUM TYPE I WITH A 250LB. RATING, IN GOOD CONDITION AND DESIGNED FOR ITS INTENDED USE.
- OWNER SHALL VERIFY THAT THE ROOF STRUCTURE WILL WITHSTAND THE ADDITIONAL LOADS.
- LAG SCREWS SHALL PENETRATE A MINIMUM 2" INTO SOLID SAWN STRUCTURAL MEMBERS AND SHALL NOT EXCEED MANUFACTURER RECOMMENDATIONS FOR FASTENERS INTO ENGINEERED STRUCTURAL MEMBERS.
- AN ACCESS POINT SHALL BE PROVIDED THAT DOES NOT PLACE THE GROUND LADDER OVER OPENINGS SUCH AS WINDOWS OR DOORS ARE LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION AND IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES, OR SIGNS.
- WHERE DC CONDUCTORS ARE RUN INSIDE BUILDING, THEY SHALL BE CONTAINED IN A METAL RACEWAY; THEY SHALL NOT BE INSTALLED WITHIN 10" OF THE ROOF DECKING OR SHEATHING EXCEPT WHERE COVERED BY THE PV MODULES AND EQUIPMENT.

11. N/A

- ALL FIELD -INSTALLED JUNCTION, PULL AND OUTLET BOXES LOCATED BEHIND MODULES SHALL BE ACCESSIBLE DIRECTLY OR BY DISPLACEMENT OF A MODULE SECURED BY REMOVABLE FASTENERS.

ELECTRICAL

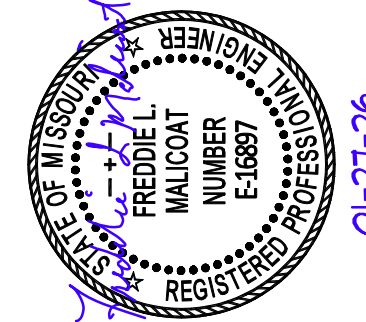
- WIRING MATERIALS SHALL COMPLY WITH MAXIMUM CONTINUOUS CURRENT OUTPUT AT 25°C AND MAXIMUM VOLTAGE AT 1000V; WIRE SHALL BE WET RATED AT 90°C.
- EXPOSED PHOTOVOLTAIC SYSTEM CONDUCTORS ON THE ROOF WILL BE USE 2 OR PV-TYPE WIRE.
- PHOTOVOLTAIC SYSTEM CONDUCTORS SHALL BE IDENTIFIED AND GROUPED. THE MEANS OF IDENTIFICATION SHALL BE PERMITTED BY SEPARATE COLOR-CODING, MARKING TAPE, TAGGING OR OTHER APPROVED MEANS.
- ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE RAIN-TIGHT AND APPROVED FOR USE IN WET LOCATIONS.
- ALL METALLIC RACEWAYS AND EQUIPMENT SHALL BE BONDED AND ELECTRICALLY CONTINUOUS.
- WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, CONTRACTOR SHALL SIZE THEM ACCORDING TO APPLICABLE CODES.
- N/A
- FOR GROUNDED SYSTEMS, THE PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUITS SHALL BE PROVIDED WITH A GROUND-FAULT PROTECTION DEVICE OR SYSTEM THAT DETECTS A GROUND FAULT, INDICATES THAT FAULT HAS OCCURED AND AUTOMATICALLY DISCONNECTS ALL CONDUCTORS OR CAUSES THE INVERTER TO AUTOMATICALLY CEASE SUPPLYING POWER TO OUTPUT CIRCUITS.

- FOR UNGROUNDED SYSTEMS, THE INVERTER IS EQUIPPED WITH GROUND FAULT PROTECTION AND A GFI FUSE PORT FOR GROUND FAULT INDICATION.
- PV MODULE FRAMES SHALL BE BONDED TO RACKING RAIL OR BARE COPPER GEC/GEC PER THE MODULE MANUFACTURER'S LISTED INSTRUCTION SHEET.
- PV MODULE RACKING RAIL SHALL BE BONDED TO BARE COPPER GEC VIA WEEB LUG, ILSCO GBL-4DBT LAY-IN LUG, OR EQUIVALENT LISTED LUG.
- THE PHOTOVOLTAIC INVERTER WILL BE LISTED AS UL 1741 COMPLIANT.
- RACKING AND BONDING SYSTEM TO BE UL2703 RATED.
- ANY REQUIRED GROUNDING ELECTRODE CONDUCTOR WILL BE CONTINUOUS, EXCEPT FOR SPLICES OR JOINTS AS BUS BARS WITHIN LISTED EQUIPMENT.
- WHEN BACKFED BREAKER IS THE METHOD OF UTILITY INTERCONNECTION, THE BREAKERS SHALL NOT READ "LINE AND LOAD".
- WHEN APPLYING THE 120% RULE, THE SOLAR BREAKER TO BE POSITIONED AT THE OPPOSITE END OF THE BUS BAR FROM THE MAIN BREAKER.
- THE WORKING CLEARANCE AROUND THE EXISTING ELECTRICAL EQUIPMENT AS WELL AS THE NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED.

SHEET INDEX:

- PV-1 - COVER PAGE
- PV-2 - PROPERTY PLAN
- PV-3 - SITE PLAN
- PV-4 - 1-LINE DIAGRAM & CALCULATION
- PV-5 - MOUNTING DETAILS
- PV-6 - ELECTRICAL LABELS & ELEVATION
- PV-7 - DATASHEETS

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897



MALICOAT - WINSLOW ENGINEERS, INC.

MISSOURI STATE CERTIFICATE OF AUTHORITY #000421

4840 RANGELINE STREET, SUITE #101
COLUMBIA, MISSOURI 65202
TEL 573-875-1300
FREDDIE MALICOAT, P.E.

ST. THOMAS MORE
NEWMAN CENTER
602 TURNER AVE.
COLUMBIA, MO, 65201

AHJ: CITY OF COLUMBIA, MO



DOGWOOD SOLAR
1501 CREEKWOOD PKWY, STE 110, COLUMBIA, MO, 65202-4287
573-447-6527
info@dogwoodsolar.com

COVER PAGE

DATE: 01-27-26
DRAWN BY: JDB

REV #1:
REV #2:
REV #3:

PV-1

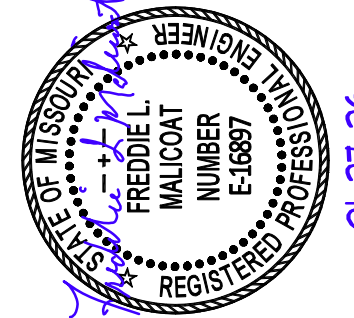
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1
PV-2 **PROPERTY PLAN**
 SCALE: NO SCALE **VERIFY MEASUREMENTS**

FREDDIE L. MALICOAT - ENGINEER
 MO# E-16897



01-27-26

**MALICOAT - WINSLOW
 ENGINEERS, INC.**

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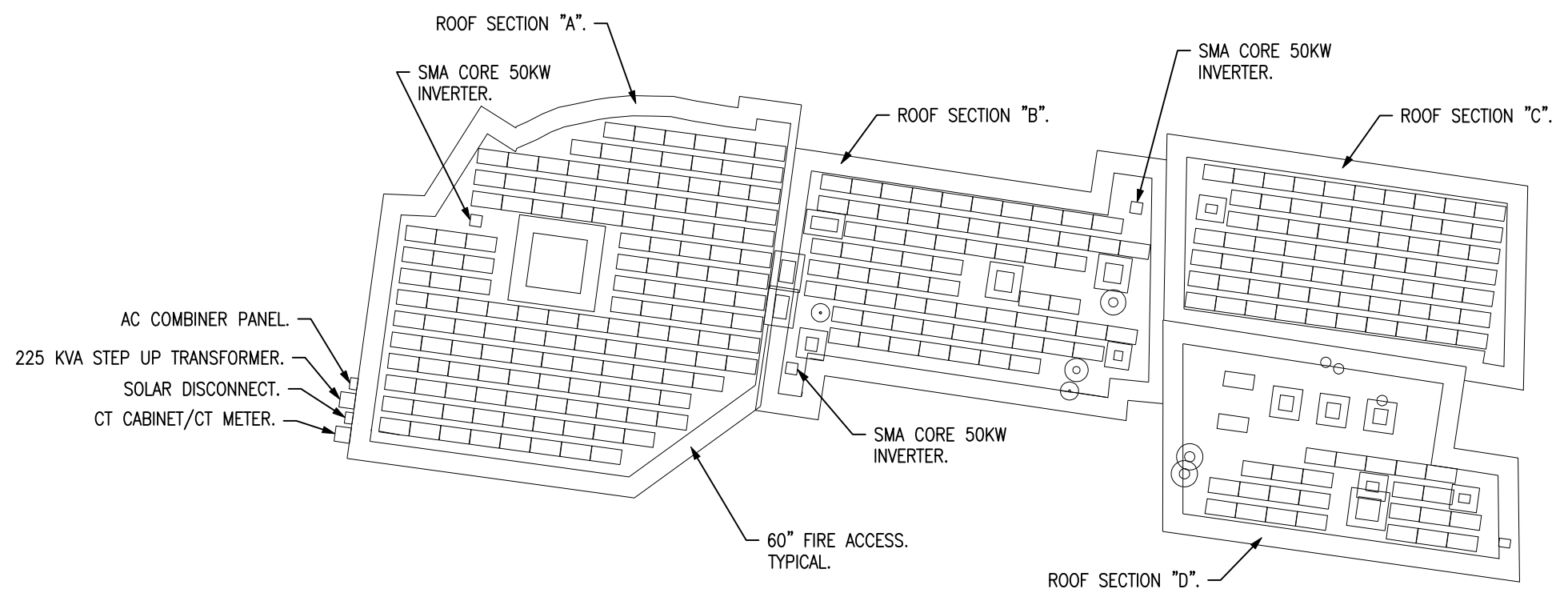
PROPERTY PLAN

DATE: 01-27-26
 DRAWN BY: JDB

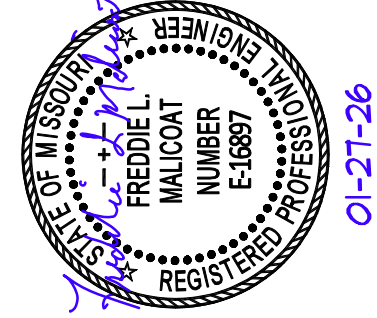
REV #1:
 REV #2:
 REV #3:

PV-2

PHOTOVOLTAIC SYSTEM:
 DC SYSTEM SIZE: 177.48 kW
 AC SYSTEM SIZE: 150 kW



FREDDIE L. MALICOAT - ENGINEER
 MO# E-16897



MALICOAT - WINSLOW ENGINEERS, INC.

MISSOURI STATE CERTIFICATE OF AUTHORITY #000421
 4840 RANGELINE STREET, SUITE #101
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 1501 CREEKWOOD PKWY, STE 110, COLUMBIA, MO, 65202-4287
 573-447-6527 info@dogwoodsolar.com

SITE PLAN

DATE: 01-27-26
 DRAWN BY: JDB
 REV #1:
 REV #2:
 REV #3:

PV-3

ROOF DETAIL	
ROOF TYPE: EPDM	
ROOF SECTION A: 144 MODULES AZIMUTH: 188° PITCH: 10°	(A)
ROOF SECTION B: 68 MODULES AZIMUTH: 188° PITCH: 10°	(B)
ROOF SECTION C: 68 MODULES AZIMUTH: 188° PITCH: 10°	(C)
ROOF SECTION D: 26 MODULES AZIMUTH: 188° PITCH: 10°	(D)

1 SITE PLAN
 PV-3 SCALE: NO SCALE VERIFY MEASUREMENTS

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TO SOLAR PANELS
#10 PV WIRE, 1K/2KV RATED
IN FREE AIR BELOW ARRAY
ONE SET PER STRING
WITH #6 GND IN EMT.
TYPICAL OF 3.

4 #4, 1 #8 GND.,
1" C. [EMT]
WITH RT FITTINGS.
TYPICAL OF 3.

250A, 480V, 3P, 4W
MB LOAD CENTER, NEMA 3R,
NF PANELBOARD WITH
(3) 3P, 80A BREAKER FOR
SMA STP 50-US-41 INVERTER.

SOLAR DISCONNECT
600A, 208V, 3P, 4W,
SQUARE D 326NR
FUSED DISCONNECT
WITH 600A FUSES.

LINE SIDE TAP LENGTH LESS THAN 10'

NOTE: ALL DC CONNECTORS TO MODULES OR
INVERTERS MUST BE OF MATCHING MANUFACTURE
BRAND AND STYLE. DO NOT USE 'COMPATIBLE'
CONNECTORS WHICH HAVE NOT BEEN UL TESTED
FOR COMPATIBILITY. PERFORMANCE AND FIRE
DAMAGE MAY RESULT FROM MIS-MATCHED
CONNECTOR USAGE.

SMA SUNNY TRIPOWER CORE1
STP 50-US-41 INVERTER.
TYPICAL OF 3.

NOTE: ALL CONDUCTORS TO BE COPPER.

4 #250MCM, #2 GND, 3" C.

MADDOX 225KVA,
STEP UP TRANSFORMER.
PRIMARY: 208V
SECONDARY: 480V

EXISTING BUILDING
ELECTRIC SERVICE.

2 @ 4 #350MCM,
#1 GND, 3" C.

EXISTING #3/0 BARE
COPPER GROUND.
VERIFY.

#3/0 GND.

EXISTING
METER

EXISTING CT CABINET

EXISTING TRANSFORMER

EXISTING.

EXISTING

PHOTOVOLTAIC SYSTEM:
DC SYSTEM SIZE: 177.48 kW
AC SYSTEM SIZE: 150 kW
INVERTER: (3) SMA STP 50-US-41
INVERTER EQUIPPED WITH RAPID SHUTDOWN
MODULE: (306) SILFAB SIL-580 XM+ [580W]

- NOTES:
1. MODULES ARE BONDED TO RAIL USING UL 2703 RATED BONDING SYSTEM - INTEGRATED BONDING MID-CLAMPS + DIRECT-BURIAL LAY-IN-LUGS; SEE ATTACHED FOR SPECIFICATIONS IF APPLICABLE
 2. PV DC SYSTEM IS UNGROUNDED
 3. PV ARRAY WILL HAVE A GROUNDING ELECTRODE SYSTEM IN COMPLIANCE WITH NEC 250.58 AND 690.47(A)
 4. PV SOURCE, OUTPUT, AND INVERTER INPUT CIRCUIT WIRING METHODS SHALL COMPLY WITH NEC 690.1(G)
 5. BACKFED PV BREAKER WILL BE INSTALLED AT OPPOSITE END OF THE BUS BAR FROM THE MAIN BREAKER. A PERMANENT WARNING LABEL TO BE INSTALLED PER SYSTEM SIGNAGE, PAGE
 6. BARE COPPER IS TRANSITIONED TO THWN-2 VIA IRREVERSIBLE CRIMP; WHEN PRESENT, THE GEC TO BE CONTINUOUS
 7. INVERTER(S) TO BE COMPLIANT WITH UL 1741 SUPPLEMENT A
 8. CONDUIT AND CONDUCTOR SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING AS REQUIRED BY FIELD CONDITIONS

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897



01-27-26

**MALICOAT - WINSLOW
ENGINEERS, INC.**

MISSOURI STATE CERTIFICATE OF AUTHORITY #000421

4840 RANGELINE STREET, SUITE #101
COLUMBIA, MISSOURI 65202
TEL 573-875-1300
FREDDIE MALICOAT, P.E.

ST. THOMAS MORE
NEWMAN CENTER
602 TURNER AVE.
COLUMBIA, MO, 65201

AHJ: CITY OF COLUMBIA, MO



DOGWOOD SOLAR
1501 CREEKWOOD PKWY, STE 110, COLUMBIA, MO, 65202-4287
573-447-6527 info@dogwoodsolar.com

1-LINE DIAGRAM & CALCULATION

DATE: 01-27-26
DRAWN BY: JDB

REV #1:
REV #2:
REV #3:

PV-4

1 ELECTRIC RISER DIAGRAM
SCALE: NO SCALE

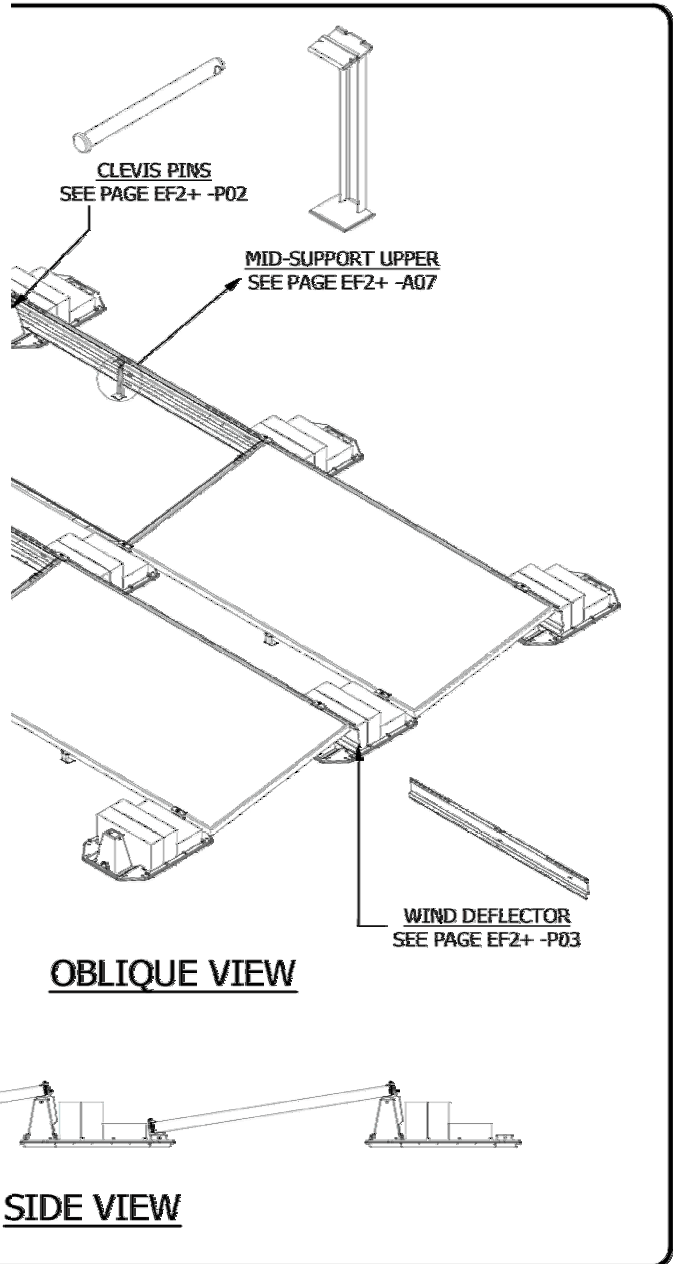
INVERTER ELECTRICAL SPECIFICATIONS	
INVERTER TYPE	SMA STP 50-US-41 INVERTER EQUIPPED WITH RAPID SHUTDOWN
MAX INPUT DC VOLTAGE	1,000V
MAX DC SHORT CIRCUIT CURRENT	32A
MAXIMUM OUTPUT POWER	50,000W
MAXIMUM CONT. OUTPUT CURRENT	64A
CEC EFFICIENCY	97.5%

OVER-CURRENT PROTECTION DEVICE (OCPD) CALCULATIONS - SERVICE A	
INVERTER TYPE	SMA STP 50-US-41 INVERTER EQUIPPED WITH RAPID SHUTDOWN
# OF INVERTERS	3
MAX CONTINUOUS OUTPUT CURRENT INVERTER	64A
(# OF INVERTERS) X (MAX CONT. OUTPUT CURRENT) X 125% = OCPD RATING	
(3x64) x 1.25= 240A	

PV MODULE ELECTRICAL SPECIFICATIONS	
MODULE TYPE	SILFAB SIL-580 XM+ [580W]
POWER MAX (P _{MAX})	580W
OPEN CIRCUIT VOLTAGE (V _{OC})	52.27V
SHORT CIRCUIT CURRENT (I _{SC})	13.85A
MAX POWER-POINT VOLTAGE (V _{MPP})	44.27V
MAX POWER-POINT CURRENT (I _{MPP})	13.10A
SERIES FUSE RATING	30A

INSTALL PER MANUFACTURER INSTALLATION GUIDE

INSTALLERS TO VERIFY FRAMING SIZE, SPACING AND MAXIMUM HORIZONTAL SPAN, AND NOTIFY E.O.R. OF ANY DISCREPANCIES BEFORE PROCEEDING.



SEE PAGE EF2+ -A08

UNIRAC
 1411 BROADWAY BLVD. NE
 ALBUQUERQUE, NM 87102 USA
 PHONE: 505.242.6411
 WWW.UNIRAC.COM

PRODUCT LINE:	ECOFOOT 2+
DRAWING TYPE:	ASSEMBLY & PARTS
DESCRIPTION:	SYSTEM OVERVIEW
REVISION DATE:	8/3/2023

DRAWING NOT TO SCALE
 ALL DIMENSIONS ARE
 NOMINAL

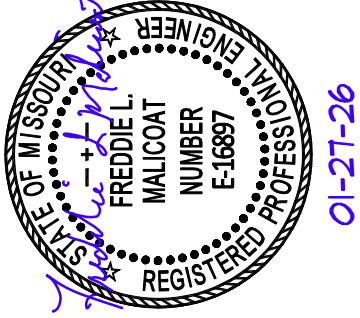
PRODUCT PROTECTED BY
 ONE OR MORE US PATENTS

LEGAL NOTICE

EF2+ -A01
 SHEET

MODULE WEIGHT: 62.8 LBS
 MODULE DIMENSIONS: 89.7" X 44.6"
 MODULE WEIGHT/ SQ. FOOT: 2.26 LBS
 TOTAL NO. OF MODULES: 306
 TOTAL MODULE WEIGHT: 19216.8 LBS

FREDDIE L. MALICOAT - ENGINEER
 MO# E-16897



**MALICOAT - WINSLOW
 ENGINEERS, INC.**

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 602 TURNER AVE.
 COLUMBIA, MO, 65201



DOGWOOD SOLAR
 1501 CREEKWOOD PKWY, STE 110, COLUMBIA, MO, 65202-4287

MOUNTING DETAILS

DATE:
 DRAWN BY: JDB

Exhibit B



Interconnection and Net Metering Application Guidelines

The installation of solar systems is a growing industry in Columbia and throughout the country. The installation of solar is a multi-step process that involves multiple Departments and Divisions of City government. These guidelines are in reference to the review and approval of the Net Metering Agreement, along with Utility Services Division's involvement in the processing of the associated rebates. Other Departments and Divisions of the City that are necessary for the full process may be mentioned, however, these guidelines do not supersede the requirements of other Departments and Divisions.

I. Definitions

- Columbia Building and Site Development (BSD) - The department within the City of Columbia responsible for building permits.
- Columbia Water and Light (CWL) - The electric utility provider for the generating facility.
- Generating Facility (GF) - The solar powered generating equipment owned and operated by the customer.
- Net Metering Agreement (NMA) - The Interconnection and Net Metering Agreement between the Generating Facility and Columbia Water and Light.
- Net Metering and Easy Connection Act (ECA) - The State of Missouri Statute (386.890.RSMo) for the interconnection and net metering of renewable energy systems up to 100 kilowatts.
- System Advisor Model (SAM) - The solar modeling program developed by the National Renewable Energy Laboratory.

II. Net Metering Process for Generating Facilities

A. Interconnection and Net Metering Agreement

1. Prior to the GF being able to be connected to CWL infrastructure, the NMA is needed between CWL and the property owner or the authorized agent.
 - a. For residential, the customer must be listed on the account in CIS or listed as the recorded property owner by the Boone County Assessor.
 - b. For commercial, the customer will be determined on a case by case basis by the CWL.
 - c. The NMA should be done prior to the GF being installed. The installation of a GF does not guarantee connection to the CWL infrastructure, unless all conditions given in Section II, Subsection B are met and the NMA is approved by CWL.
2. CWL will provide a letter to the customer approving the NMA when conditions in Section II, Subsection B have been met.
3. The customer will need to complete an electrical permit through BSD for the GF.
4. Upon completion of the electrical permit with BSD, CWL will review the installed GF for alignment with approved NMA. Any alterations will be handled on a case by case basis at the discretion of CWL.
5. Once the installed system has been reviewed and determined by CWL to comply with the NMA, a new bi-directional meter will be installed. CWL will not turn on the PV system at the time when the bi-directional meter is installed.

6. After the bi-directional meter is installed, the customer and/or installing contractor will be notified that the GF can be connected to the CWL infrastructure. CWL will not turn on the GF for its initial connection to the CWL Infrastructure.
7. If the planned PV system is greater than 100 kW, refer to Section V.

B. Net Metering Conditions

1. All of the conditions in the NMA will be met.
2. The NMA will be signed by the customer.
3. GF projected yearly PV generation cannot be greater than 110 percent of previous 3-year average of electric usage, as calculated by CWL. If the property is new or there is not adequate prior usage, discretion on oversizing will be made on a case by case basis by CWL.
4. Plans for the PV system are provided to CWL must be certified from a professional electrician or professional engineer. Professional electricians and/or engineers must be a Master Electrician that is licensed by the City of Columbia, a licensed Missouri Electrical Contractor from the Missouri Division of Professional Registration, or a Professional Engineer licensed in Missouri to comply with the ECA.
 - a. The plans must be provided directly from, be stamped by, or be accompanied by a signed statement from the professional electrician or engineer.
 - b. If the plans are not stamped, then a copy of the license or other proof of certification must be provided to CWL.
5. If a Line-Side Connection is used to connect the GF to the CWL infrastructure, see Attachment 1.
6. The solar disconnect must be within 6 feet and direct line of site of the electric meter base.
7. The solar modules and inverters for the GF must be new and listed as eligible solar energy equipment by the California's Energy Commission's Solar Equipment Lists. (<https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>)
8. CWL may require a meter base upgrade along with any PV installation.
 - a. Refer to Attachment 2 for additional requirements on meter base replacement.
 - b. If a meter base upgrade is necessary, the bi-directional meter will not be installed until the upgrade is completed.
 - c. The cost for the meter base upgrade is the responsibility of the customer.
9. The installation of a bi-directional meter is necessary before the GF can be connected to the CWL infrastructure. The bi-directional meter installation cost will be covered by CWL, given no installation limitations from the existing meter base. The bi-directional meter will not be installed until all associated project documentation is received, including but not limited to documentation for rebates.
10. PV systems with battery backup will be evaluated on a case by case basis by CWL for connection with City infrastructure.
11. The use of System Advisor Model (SAM) may be requested at the discretion of CWL review staff as part of the NMA for GF with significant potential reduction in solar production due to shading. CWL has a specific template that must be used in SAM. This template will be provided upon notification by CWL that a SAM is required for a GF. When SAM models are requested by CWL review staff, the shade analysis

must be used in the SAM model of the GF using the CWL SAM template. There are two options when performing a shade analysis:

- (1) The Solar Pathfinder tool and Solar Pathfinder Assistant software can be used to create a shade model to be exported and used in SAM.
- (2) The 3D Shade Calculator built into SAM may be used to create a shade model.

12. Any exceptions to the conditions listed above in this subsection may be reviewed on a case by case basis by CWL upon request.

III. Rebates for Generating Facilities

A. Rebate Requirements

1. Rebate for a GF is based on the total capacity (kW) at the utility peak and the modeled 1st year annual energy production (kWh).
2. CWL will only provide a rebate for the capacity needed to meet up to 110 percent of the customer's annual consumption.
3. CWL will only provide a rebate for GF that have electric meter bases associated with buildings on a fixed foundation.
4. Rebates will be capped at a maximum of \$50,000, regardless of GF system size.
5. GF with arrays that do not qualify for rebates are eligible for interconnection and net metering.

B. Rebate Calculation and Payment

1. For rebate structure and calculation refer to Attachment 4.
2. Once the installation of the GF is completed, an invoice must be provided to process the rebate. The following information is necessary on the invoice: on company letterhead, have an invoice number, have a date of issuance, have a due date, have the customer's name, have the address for the GF, and have a project description with a breakdown of items the customer received.

IV. Change in Ownership

Per the ECA, if there is a change in ownership of GF, the new owner shall be responsible for filing a new NMA with CWL.

V. Generating Facilities Greater than 100 kW

For any GF greater than 100 kW, these will be handled on a case by case basis with CWL.

VI. Solar Water Heaters

A. No rebates are available for the installation of solar water heaters.

Line-Side AC Connections for PV Systems

NEC Article 240.21(B)(1) through (B)(5), regulates wire and over-current protection for feeder taps.

NEC Article 690.64(A) allows a Line-Side AC connection to busbars, conductors, or lugs at any point between the customer's side of the utility meter, and the service disconnect.

NEC Article 750.12 specifies how the output of interconnected power sources shall be connected. City of Columbia Utilities does not allow the line side AC connection to be made within the meter base.

A separate junction box must be supplied. See Figure 1.

Contractors must connect to the service entrance conductors, busbars, or lugs at some point between the customer's side of the meter, and the main service disconnect. Busbar connectors often make this easy with ready-made connection points you simply bolt up to, but other devices for conductor attachments are allowed. These are insulation-piercing tap splice connectors, insulated terminal blocks, parallel tap connectors, crimped parallel connectors, and the split bolt.

Meter base sizing must be verified prior to interconnection approval. Water & Light may require a meter base upgrade along with any PV installation.

Contractors are responsible for paying the meter removal/replacement fee for this type of connection.

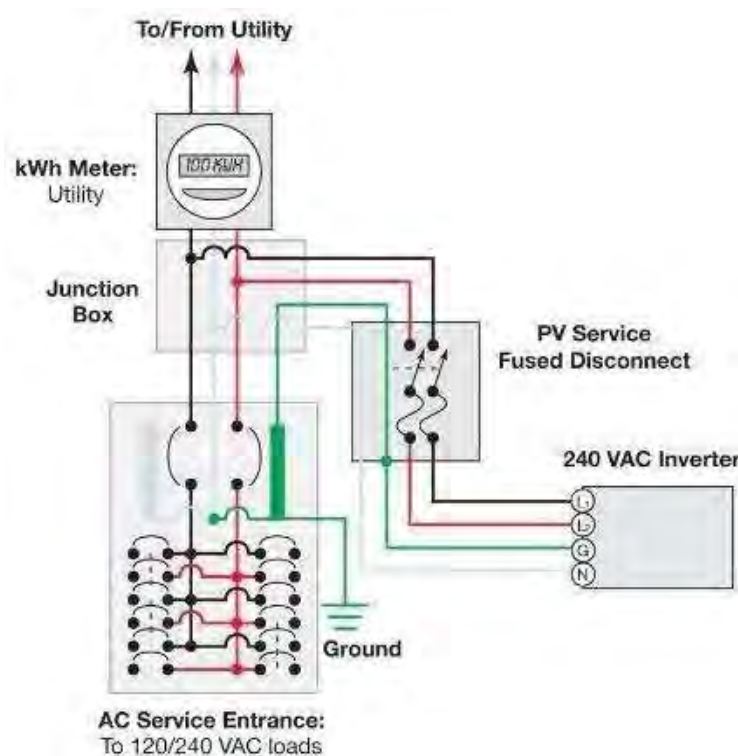


Figure 1. Diagram of allowable Line-Side Connection.

Columbia Water and Light Solar Installation Meter Base Replacement

All meter bases installed in CWL's service territory shall be of a type approved by CWL and meet all requirements in construction and features. It is necessary for the protection of the customer that all electrical work be installed and maintained in a safe manner by a licensed electrician. In addition, meter sockets purchased by the customer shall be:

- UL listed
- Labeled in accordance with National Electrical Code
- Have a lever operated by-pass device
- Be a minimum of 200 amps

Meter bases installed prior to 1980 must be replaced unless it can be verified that they meet the following criteria:

1. Meter base is properly sized for the work to be completed.
 - 60 amp meter bases shall be replaced
 - 100 amp meter bases that are small square meter bases flush with the siding on the house shall be replaced on all GF
 - 100 amp meter bases shall be replaced if the solar system is 15 kW or larger
 - Size/rating of service entrance conductors shall be evaluated for replaced meter bases
2. Meter base is in good condition, as determined by CWL (including but not limited to):
 - Meter base is properly secured to building
 - No missing knockouts
 - Minimal signs of rust
 - No evidence of burning or arcing
 - Overhead mast is securely fixed
 - Underground conduit is sealed and securely fixed
3. A residential property with current transformer meter bases will require a meter base replacement. Commercial properties with current transformer meter bases will be reviewed on a case by case basis.
4. Meter base is appropriate for a bi-directional meter.

**Code Requirements for
Residential and Commercial
Solar Photovoltaic Systems**

Applicable Building Codes:

- IRC 2018 International Residential Code R324.3.1 through R324.7.1
- NEC 2017 National Electric Code (Article 690, NFPA 70 and all other applicable standards)
- IRC 2018 International Residential Code Stationary Storage Battery Systems R327.1 through R327.6

Building Code Questions:

Contact: Columbia Building and Site Development

573-874-2489

<https://www.como.gov/community-development/bsd/building-permits/>

Apply for a Permit:

Online: https://energov.como.gov/energov_prod/selfservice#/home

Over the Phone: 573-874-7474

Solar Rebate Structure and Calculation

The rebate paid for a PV system is based on the total capacity (kW) and modeled energy production. Water & Light will only provide a rebate for the capacity needed to meet up to 110% of the customer's annual consumption. Annual consumption is an average of the most recent 3 years consumption at the installation location. Systems with a tilt greater than 10 degrees from horizontal and azimuths ranging from 0 – 70 and 320 – 0 **are not eligible for rebates**. However, these systems are eligible for interconnection and net metering.

Step 1. System size: To determine the dollar value of the Baseline Rebate, multiply the total capacity (kW) by \$500.

Step 2. The rebate calculator worksheet (partially shown below) will be used to determine the rebate based on the system size and orientation (azimuth and tilt). The worksheet can be downloaded from the City website, and the rebate for each array will be automatically calculated. The Peak Factor for each azimuth and tilt combination that is eligible for rebate can be seen on the full chart.

Site specific conditions, such as shading, may cause a significant potential reduction in solar production due to shading. This will affect the Peak Factor used in determining the final rebate amount and CWL may request shading analysis. If shading analysis is requested the solar vendor/contractor is required to complete and submit modeling of the solar array using the National Renewable Energy Laboratory's System Advisor Model (SAM) software (<https://sam.nrel.gov/>) using the CWL template and a shade analysis. This modeling will provide production characteristics specific to the solar array design features. Contractors should contact Columbia Water & Light for the required conditions to model a system's output. System output is expressed in terms of first year annual solar production (kWh generated). Systems containing arrays with multiple tilt, azimuth and shading conditions must be modeled separately. Rebate will decrease proportionally based on the reduced annual production with shading incorporated versus the annual production without shading analysis.

Water & Light reserves the right to verify modeled output at any time.

Step 3. Enter parameters into the rebate calculator worksheet to automatically determine the anticipated rebate. Each array will need to be entered separately.

If SAM modeling is required, instructions on how to determine the rebate will be provided by CWL.

For Single Array: $\text{Baseline Rebate} \times \text{Peak Factor} = \text{Rebate Amount}$

Multiple Arrays: Complete Single Array Calculation for each array and sum rebate amounts

Chart #1, Portion of rebate calculator chart appended to display Peak Factor values associated with Azimuth values of 0-140 and Tilt values of 0 - 21

TILT	AZIMUTH																														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140		
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11																	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1	
12																	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1	
13																	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1
14																	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1	1.1
15																	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1	1.1	1.1
16																	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1.1	1.1
17																	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1.1	1.1
18																	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1	1.1	1.1
19																	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1.1	1.1	1.1
20																	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	1.1	1.1	1.1
21																	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1.1	1.1	1.1

Sample Calculation

Total System Size: 12 kW
 Tilt: 20 degree
 Azimuth: 135 degree orientation

Baseline rebate: 12 kW * \$500/kW = \$6,000
 Peak Factor: 1.1 (From rebate calculator)
 Rebate amount: (6,000 * 1.1) = \$6,600

Questions

Email: Renewables@CoMo.gov

Phone: 573.441.5528