

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

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 Shelter Mutual Insurance Company (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 one hundred (100) kilowatts or more, 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 REIMBURSEMENT 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 **Thirty-One Thousand Dollars (\$31,000)**, 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     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 less than 100 kW. 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 3.1 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 componenets) 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 \$1,000,000 Each Occurrence, \$2,000,000 Annual Aggregate. Coverage shall not contain any endorsement(s) excluding nor limiting Contractual Liability or Cross 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.

## 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:

Shelter Mutual Insurance Co.  
General Services  
Attn: Rick McVeigh, Director  
1817 W Broadway  
Columbia, MO 65218

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 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. In the event of a conflict between the terms of any Contract Documents, the terms of the documents control in the order listed above.

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: \_\_\_\_\_  
John Glascock, City Manager

Date: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Sheela Amin, City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Nancy Thompson, City Counselor / AK <sup>DS</sup>

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

\_\_\_\_\_  
Mathew Lue, City Director of Finance

SHELTER MUTUAL INSURANCE COMPANY

By: \_\_\_\_\_  
*Richard W. McVeigh*

Printed  
Name: Richard McVeigh

Title: Director of General Services

Date: 05/21/2020

# Shelter Insurance PV Solar Project

Exhibit A

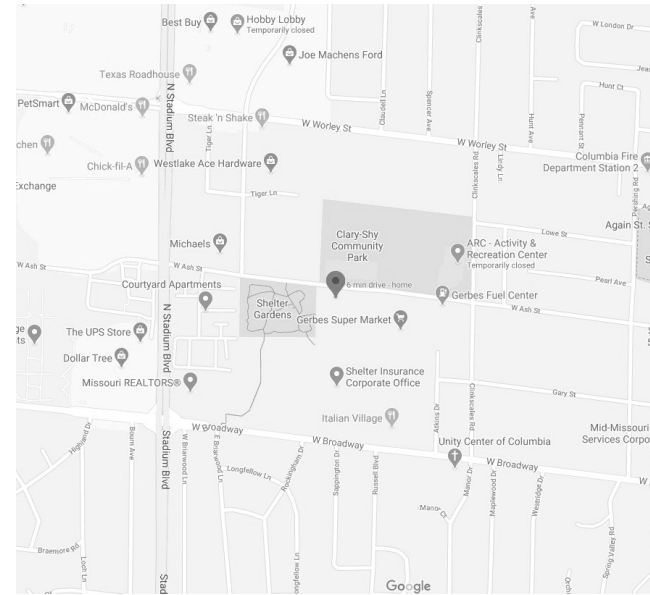
Shelter Insurance  
1817 W Broadway.  
Columbia, MO 65218

## Project Description

- ADDITION OF 300kW ROOFTOP PV SOLAR ARRAY

## Index

- INVERTER LOCATIONS AND CONDUIT ROUTING
- ROOF BOUNDARIES / ACCESS POINTS
- RAPID SHUTDOWN DETAIL
- APPROVED SOLAR RACKING ENGINEERING
- AC SINGLE LINE DIAGRAMS
- PRODUCT SHEETS



## Codes and Standards

THE SOLAR SYSTEM SHALL BE DESIGNED AND INSTALLED PER FOLLOWING APPLICABLE CODES AND STANDARDS:

- 2018 INTERNATIONAL BUILDING CODE.
- NATIONAL ELECTRICAL CODE 2017.
- NATIONAL ELECTRICAL SAFETY CODE 2017.
- IEEE 1547 – INTERCONNECTION STANDARD.
- UL1741-STANDARD FOR INVERTERS, CONVERTERS & CONTROLLERS FOR USE IN INDEPENDENT POWER SYSTEMS.
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
- CITY, STATE AND COUNTY ORDINANCES.
- AMERICAN STANDARD OF TESTING MATERIALS (ASTM).

## General Notes

- SOLAR DESIGN / LAYOUT - CULLY MEIER - NABCEP - PV-042217-017095
- ELECTRICAL CALCULATIONS - CRIS NAEGELE - MO LICENSE #2009005124
- SOLAR RACKING STRUCTURAL APPROVED BY PAUL K. ZACHER, MO LICENSE #2014008206
- ALL ENGINEERING WORK SHALL CONFORM TO THE APPLICABLE NATIONAL AS WELL AS LOCAL CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRIC CODE AS WELL AS COLUMBIA & BOONE COUNTY ORDINANCES.

EnergyLink 501 Fay St. #106

Columbia MO 573-777-4811



info@goenergylink.com

REV1

CM 4/13/2020



# Shelter Insurance PV Solar Project

## PROJECT DESCRIPTION

300KW BALLASTED PV SOLAR ARRAY

### NOTES

PROJECT ADDRESS:  
 SHELTER INSURANCE (NEW BUILDING)  
 1817 W BROADWAY, COLUMBIA, MO 65218

- PROJECT DETAILS:
- 750 x 400w TRINA SOLAR PANELS
  - 10 DEGREE TILT / STRAIGHT SOUTH ORIENTATION
  - EKONORACK BALLASTED NON-PENETRATING RACKING W/ RUBBER PADS
  - 5 x SMA CORE1 SOLAR INVERTERS
  - 394,758KWH ESTIMATED ANNUAL PRODUCTION



EnergyLink	501 Fay St. #106
Columbia MO	573-777-4811



info@goenergylink.com

REV1

CM	4/13/2020
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## City of Columbia, Missouri Photovoltaic System Rebate, Interconnection, and Net Metering Guidelines

When you add clean, renewable solar photovoltaic (PV) power to your home or business you are reducing Columbia's carbon footprint, protecting the environment, and contributing to the City of Columbia's renewable energy portfolio. Columbia Water & Light provides incentives for these multiple benefits through our solar rebate program and net metering agreements.

The program rewards customers based on the overall capacity of their PV system (kW) as well as its energy production (kWh) during "peak" times. Peak times are periods of high system demand when electricity is most expensive for Water & Light to provide to its customers and normally occur on hot summer afternoons and evenings. The utility provides a premium rebate for PV systems designed to perform best during peak periods using azimuth, tilt and shading as determining factors.

Please review the following details and program steps with your contractor.

### Process for Photovoltaic Rebates, Interconnection, and Net Metering

1. **Educate yourself:** Study PV systems and evaluate your energy consumption history. This will give you an idea of what type will work best for your location, the size and cost of the system.
2. **Choose your contractor.** Contact several PV installation contractors. Columbia Water & Light maintains a list of PV contractors who meet our program requirements. It is important to ask the contractors for references, licenses and certifications.
3. **Review the parameters of the rebate program.** Review the steps outlined below in "Determining your Rebate" and the net metering information with your contractor.
4. **Fill out and submit the Interconnection & Net Metering Agreement.** This provides details about your PV system and site to Columbia Water & Light. The Agreement can be filled out electronically, however a signed hard copy must be emailed, faxed or mailed to Columbia Water & Light using the contact information on the form. Columbia Water & Light staff will review your proposal and notify you of any changes or additional information needed. A letter from Columbia Water & Light approving your PV project for interconnection will also notify you of the amount of reserved rebate funds. Fund reservations are valid for six months from the date of the project's approval letter. **Projects not completed within six months of approval must be resubmitted and will forfeit their place in the rebate process.** If funds are unavailable at time of approval, your project will be placed on a waiting list based on the date of approval. The rebate fund is allocated during the City's annual budget process and subject to City Council approval. Placement on the waiting list does not guarantee rebate funding.
5. **Permits, installation and inspection:** After approval from Columbia Water & Light, work with your contractor to obtain an electrical permit from Building and Site Development (BSD), a division of the Community Development Department. This allows your contractor to proceed with the installation of your PV system.  
After the PV installation is complete, contact BSD to schedule a final code inspection for your electrical permit.  
Upon receiving final electric code approval from BSD, the project is considered complete, the next step is to contact Columbia Water & Light at 573-874-7325 and schedule a rebate inspection.

6. **Finalize your rebate:** Your rebate will be finalized at the time of inspection by Columbia Water & Light staff. Please supply copies of all applicable invoices for the PV system, a copy of the final approved code inspection and a copy of the insurance certificate, if required. You have 30 days from the date of this inspection to provide any additional information. Once all information has been submitted your rebate will be processed and mailed to you. If you were notified your project was placed on a waiting list for rebate funds the rebate will be processed as funds become available.

### **Determining Your Rebate**

The rebate paid for a PV system is based on the total size (kW) and modelled energy production at the utility peak (kWh). Systems with a tilt greater than 10 degrees from horizontal **and** azimuths ranging from 0 – 110 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, use the tier corresponding to the rated DC capacity of the system on Chart #1 below.

**Step 2.** System output at peak: Once the size of the system is determined, 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/>) and/or Solar Pathfinder. 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 kWh generated per kW of system size and corresponds to a "Peak Factor" in Table #1. Systems containing arrays with multiple tilt, azimuth and shading conditions must be modeled separately.

Chart #2 below is provided as an indicator of potential rebate based on the system orientation (azimuth and tilt) and **does not** take into account system shading. Site specific conditions, such as shading, may affect the final rebate amount and must be taken into consideration during the modelling process. Water & Light reserves the right to verify modelled output at any time.

**Step 3.** Multiply the Baseline Rebate amount by the Peak Factor to arrive at the final rebate amount. Systems containing arrays with multiple tilt, azimuth and shading conditions must be modeled separately. Rebates for these systems are prorated based on the contribution of each array to the total system capacity.

Single Array: **Baseline Rebate** (From Chart #1) × **Peak Factor** (From Table #1) = **Rebate Amount**

Multiple Arrays: **%of total DC capacity** × **Baseline Rebate** × **Peak Factor** = **Rebate Amount**

## Interconnection Standards

Please review the Interconnection & Net Metering Agreement for the full list of requirements for PV systems attached to Columbia Water & Light's electric distribution system.

### The PV system shall comply with the following standards:

**National Electric Code (NEC)** 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).

**Underwriters Laboratories (UL)** including but not limited to, UL 1741 (standard for static Inverters and charge controllers for use in PV systems) and UL 1703 (Standard for Safety: Flat Plate Photovoltaic Modules and Panels).

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

The solar modules and inverters must be new and listed as eligible solar energy equipment by the California Energy Commission's Go Solar: <http://www.aosolarcalifornia.ca.gov/equipment/index.php>

The PV system must be located on the customer's premises and must be intended primarily to offset part or all of the customer's own electrical requirements.

## Net Metering

The value of the excess electricity generated by the solar energy system and delivered to Columbia Water & Light, will be credited to the customer's account at their current applicable electric rate. An Interconnection & Net Metering Agreement must be approved by the utility for the customer to receive a credit for the excess energy they generate. The utility retains the renewable energy credits (RECs) for the project. Customers choosing to retain the RECs for their solar energy system will receive credit for the excess energy based on the avoided average energy market price at the Columbia pricing node.

Columbia Water & Light reserves the right to reject interconnection of PV systems not meeting the net metering or rebate program parameters.

Output at Peak (kWh/kW)	Peak Factor	Chart #2 Icon
Greater than 1.97	1.25	●
1.97 to 1.35	1.00	●
1.35 to 0.41	0.75	○
Less than 0.41	0.0	X

**Sample Calculation**

Total System Size: 12 kW  
 20 degrees tilt  
 250 degrees orientation  
 No Shading  
 Output at Peak: 1.98 kWh/kW (From SAM, <https://sam.nrel.gov/>)

Baseline rebate: \$5,800 (From Chart #1)  
 Peak Factor: 1.25 (From Table #1)  
**Rebate amount: (\$5,800 X 1.25) = \$7,250**

**Chart #1 - PV Project Baseline Rebate based on rated kW of the system**

Capacity	0 - 10 kW	10.1 - 50 kW	50.1 kW - 100 kW	More than 100 kW
Rebate	\$500/kW <small>\$5,000 available</small>	\$400/kW <small>\$16,000 available</small>	\$200/kW <small>\$10,000 available</small>	No Rebate offered
Total project size	0 kW	10 kW	50 kW	100 kW
Max total rebate	\$0	\$5,000	\$21,000	\$31,000

**Chart #2 - Unshaded Production at Peak**

For an estimate of unshaded production at Peak, choose the row/column corresponding to the tilt/azimuth of the array. The color of the icon represents the Peak Factor found in Table #1. Orientations indicated with "X" receive no rebate.

	350	340	330	320	310	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	
0	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
10	X	X	X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

This table is provided as a planning tool only. Site specific conditions such as shading of the PV array may greatly reduce its production. Final rebate amount will be determined using modeled output of the PV system using NREL's SAM and/or Solar Pathfinder.