



PV System Submittal Checklist

Lodi Electric Utility (LEU)

1331 S. Ham Ln. Lodi, CA. 95242, 209.333.6762

RESIDENTIAL INSTALLATIONS: Must obtain pre-approval from LEU prior to obtaining a building permit from the City of Lodi's Community Development Department. Submit completed documents to: Lodi Electric Utility at 1331 S. Ham Ln. Lodi, CA. 95242, Tel.: 209. 333.6762.

COMMERCIAL INSTALLATIONS: Must initiate with the City of Lodi's Community Development Department, include all LEU paperwork with your permit application.

Incomplete submittals will not be accepted. Upon receipt of completed application, LEU will review the proposed size, analyze impacts to the distribution system and if pre-approved, execute an Interconnection Agreement. LEU's standard response for residential projects is 7-10 business days. *Please type or write legibly to avoid delays.*

CUSTOMER INFORMATION CONTRACTOR INFORMATION:

Name: _____

Installation Addr: _____

Ph.: _____

Email: _____

Customer Type
(Circle one): RESIDENTIAL / COMMERCIAL

Proposed System's CSI Rating : _____ kW

Best point-of-contact for our questions:

Name: _____

Company: _____

Address: _____

Ph.: _____

Email: _____

DOCUMENTS ATTACHED (PLEASE INDICATE VIA CHECK):

- Attached: Two sets of elec. drawings (including: 1-line, 3-line, metering & panel layout, site-plan showing equip. location).
- Attached: Service & Meter Application.
- Attached: Electrical Interconnection & Net Metering Payment Agreement.
- Attached: A fully executed Acknowledgement of Renewable Energy Credit Ownership.
- Attached: Copy of signed contract for PV system equipment and installation, with total cost.
- Attached: Proof of 10-year warranty on parts and labor.
- Attached: Copy of CSI EPBB results page (www.csi-EPBB.com/default.aspx); enter system array data, and USE THE FOLLOWING: Zip Code = (95240 / 95241 / 95242); Utility = PG&E; Incentive Type = EPBB.
- Panel-upgrade permit #: _____ (or "N/A" if not applicable). **Note: A separate permit is required to change-out/upgrade an electrical service panel. If work is being done to a main-panel or if the Utility disconnects power, a signed final-inspection of the main-panel from the Building Department is required before the Utility will reconnect power.**

I have fully and accurately completed and attached each of the above (omitted check-marks and mistakes in submittals will result in significant delays to your project).

Applicant's Signature: _____ Date: _____

FOR LEU USE ONLY:

1. Received by LEU staffer: _____ Date: _____

2. Assigned to Eng. staffer: _____ Date: _____ Requested kW: _____

3. Circle one: PRE-APPROVED / DENIED
Please provide notes below if denied _____ Date: _____ Max Allowed kW: _____

4. Applicant notified by: _____ Date: _____

Notes: _____

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Service and Meter Application Load/Photovoltaic Information Sheet

Please complete a separate sheet for each service entrance panel.

Project Name: _____

Electrical Contact: _____

Site Address: _____

Title: _____

Location: _____

Phone: _____

Application:

- | | | |
|---|--|--|
| <input type="checkbox"/> New Construction _____ Sq. Ft. | <input type="checkbox"/> Residential _____ Sq. Ft. | <input type="checkbox"/> Overhead Service |
| <input type="checkbox"/> Building Addition _____ Sq. Ft. | <input type="checkbox"/> Commercial _____ Sq. Ft. | <input type="checkbox"/> Underground Service |
| <input type="checkbox"/> Relocating Existing Service Entrance | <input type="checkbox"/> Photovoltaic System | <input type="checkbox"/> EV Charge Meter |

Service Voltage (check one):

- | | | |
|---|--|---------------------------------------|
| <input type="checkbox"/> 120/240V 1-phase, 3-wire | <input type="checkbox"/> 277/480V 3-phase, 4-wire | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> 120/240V 3-phase, 4-wire | <input type="checkbox"/> 480V 3-phase, 3-wire (<i>Ungrounded—requires ground detection equip.</i>) | |
| <input type="checkbox"/> 120/208V 3-phase, 4-wire | <input type="checkbox"/> EV Rapid Charger (<i>EV charger station voltage must match main service voltage.</i>) | |

Timing:

Date of Ground Breaking (est.): _____

Date to Final Grade (est.): _____

Date to Energize: _____

Hours of Operation Per Day: 8 12 16 24

Service Disconnect:

Size (amps): _____

Switch Rating (percentage): _____

Total Connected Load Information:

(KW or HP)	Description	Connected Load:	
		1-phase	3-phase
Lighting:			
HVAC:			
Receptacle:			
Process Heat:			
Water Heat:			
Space Heat:			
Motors*:			
Welders**:			
EV Charge Service***:			
TOTAL LOAD			

*Motor Load Detail included above:

Description	Quantity	Size (HP)	Efficiency Rating	Phase / Voltage	Nema Code	Starts Per Hr. or Day	Starting Amps	Use

**Welder Detail included above:

Description	Quantity	Size (kVA)	Type	Max. Inst. Demand	P.F. at Peak	Welds Per Minute	Cycles Per Weld	Hours Per Day Use

***EV Vehicle Detail:

Make	Model	Year	Mfg. Rated Connected Load	Comments

Photovoltaic System:

Equipment	Manufacturer	Model No.	Quantity	STC Rating	PTC Rating	Efficiency Rating
Panels/Modules						N/A
Inverter				N/A	N/A	



Service and Meter Application Sequence of Events

Applying for a new or modified electrical service:

The City of Lodi Electrical Utility (LEU) wants your request to be handled in a timely, efficient manner. In order for this to happen smoothly, we will need some important information from you. Please complete the attached load information sheet and submit it with your building permit request. The more accurate your information, the better we can provide the service you need. If you have any questions regarding this form please contact LEU at (209) 333-6762. Information about LEU and its policies and regulations can be found on our website at www.lodielectric.com.

Fees:

General: Community Development will collect all building permit fees. At the time of application, the Engineering Department will estimate your "cost to connect" and you will be billed before work starts. Upon receipt of payment, the work will be scheduled. At the end of the job, actual costs incurred will be calculated, compared to the estimate, and your bill will be reconciled.

Residential: LEU will charge only the actual cost to connect your panel to our existing system. In the case of a subdivision, the entire subdivision will be handled as a commercial development.

Commercial Development: The developer is responsible for the entire cost of any new development. This includes the cost of the installation of all facilities that must be installed on-site for that development and those substructures and facilities that will need to be installed at that time for any future development. Typically that would mean additional empty conduit runs and/or vaults to serve adjacent properties.

Development Impact Fee: Development Impact Fees will be assessed for each project, based on the voltage, amperage and quantity of your panel(s). Please refer to the City of Lodi Municipal Code Sec.: 15.64.060 for full details.

Setting Your Meter:

Two things will have to happen before we can set your meter. First you must obtain a final inspection from the Building Department. An inspection can be scheduled by calling (209) 333-6716. Second, you must be signed up with the Finance Department for your new service. Once you have a signed final inspection, contact Billing Services at (209) 333-6717 to arrange for an electric meter set.

Customer/Contractor Signature: _____ Phone: _____

Building/Project Address: _____

Date: _____



**CITY OF LODI ELECTRIC UTILITY
ELECTRICAL INTERCONNECTION AGREEMENT
FOR GENERATING FACILITY OF 1 MEGAWATT (CEC-AC) OR LESS**



“Parties,” or individually as “Party,” agree as follows:

1.0 ELECTRIC GENERATING FACILITY:

1.1 Building Permit Number: _____

1.2 Description of Customer’s Generating Facility:
 Type of Generator (Solar/Wind/Hybrid) _____
 Generator Rating (CEC PTC Watts-DC) _____
 Inverter Manufacturer used with Generator _____
 Inverter Model No. _____
 System Rating (CEC-AC Watts) _____

1.3 Description of Customer’s Energy Storage Facility (if any):
 Battery Rating _____
 Battery Manufacturer and Model _____
 Inverter Manufacturer and Model _____

1.4 Customer’s Service Address: _____

1.5 Customer’s Billing Address: _____

1.6 Customer’s Phone No. at Service Address (): _____
 Alternate (): _____

1.7 The Facility consists of electricity-generating hardware, electrical controls, an inverter, automatic disconnect, and wiring to connect all of the above to Lodi’s electricity distribution system (collectively referred to hereafter as the “Facility”).

1.8 The Facility will be ready for operation on or about: _____

1.9 Customer Utility Account No: _____

2.0 OPERATING OPTION

Customer has elected to construct, design, install, operate and maintain the Facility in a manner consistent with the normal and safe operation of the electric distribution system owned and operated by Lodi. The Facility is intended primarily to provide part or all of the Customer’s own electrical energy requirements.

By signing this Agreement, Customer understands, accepts, and agrees that connection and operation of the Customer’s Facility shall be subject to the terms and conditions set forth in this Agreement and in [Lodi’s rates, standards, rules and regulations](#) (referred to hereafter as the “Rules” available at: www.lodielectric.com). Any conflict between this Agreement and the Rules will be governed by the terms of the Rules.

3.0 ENERGY PURCHASE CREDIT FOR CUSTOMER GENERATION

The provisions of Lodi’s Schedule EP, “Energy Purchase” ([LMC Section 13.20.290](#)) shall be applicable. Any changes in Lodi rates which would act to modify this Agreement shall automatically be incorporated herein without the need for a formal amendment.

4.0 INTERRUPTION OR REDUCTION OF DELIVERIES

4.1 Lodi shall not be obligated to accept, and Lodi may require Customer to interrupt or reduce deliveries of energy to Lodi: (a) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any of Lodi’s equipment or part of Lodi’s system; or (b) if Lodi determines that curtailment, interruption, or reduction of receipt of energy from Customer’s Facility is necessary because of emergencies, forced outages, force majeure, or compliance with prudent electrical practices.

4.2 As practicable, Lodi shall give Customer reasonable notice of the possibility that interruption or reduction of deliveries may be required. The Parties acknowledge that such notice is not a legal requirement.

4.3 Notwithstanding any other provision of this Agreement, if at any time Lodi, in its sole discretion, determines that either (a) the Facility may endanger Lodi personnel or member of the general public, or (b) the continued operation of

“Customer,” and the City of Lodi (Lodi), referred to collectively as

Customer’s Facility may impair the integrity of Lodi’s electric distribution system, Lodi shall have the right to disconnect Customer’s Facility from Lodi’s electric distribution system. Customer’s Facility shall remain disconnected until such time as Lodi is satisfied that the condition(s) referenced in (a) or (b) of this paragraph have been corrected.

4.4 Lodi shall not be obligated to compensate Customer for any loss of use of generation of energy during any and all periods of disconnection.

5.0 CONDITIONS OF FACILITY OPERATIONS

5.1 Customer shall deliver available energy from the Facility to Lodi at the utility’s meter.

5.2 Customer, and not Lodi shall be solely responsible for all legal and financial obligations arising from the construction, installation, design, operation, and maintenance of the Facility in accordance with all applicable laws, ordinances, regulations and standards (LORS).

5.3 Customer, at Customer’s sole expense, shall obtain and possess all permits and authorizations in accordance with all applicable laws and regulations for the construction, installation, design, operation and maintenance of the Facility.

5.4 Metering shall be accomplished using one meter to register both energy delivered to the customer and energy received and exported to Lodi’s electric distribution system. Proper configuration is referenced in Lodi Engineering Standard 942 0240. While Lodi shall provide and install the meter, the Customer shall be responsible for all metering and interconnection charges required to provide service under Schedule EP and this Interconnection Agreement.

5.5 Lodi may install, at its expense, additional metering equipment to record total Facility generation. Customer shall be responsible for installing all infrastructure to support additional metering equipment as further specified in Lodi’s Rules, including, but not limited to, Lodi Engineering Standard 942 0240.

5.6 In the event that Customer sells said property, this existing Agreement will be null and void. The existing facility system will be disconnected by Lodi once the Customer has vacated the premises and before a new owner inhabits the premise. Customer shall notify Lodi of such property sale, as well as effective date of said sale of property.

5.7 In the event that said property is a rental property, the customer/owner of property will be responsible for maintaining the system and adhering to all safety requirements. In addition, the property owner will be required to sign the contractual arrangement – not the tenant (renter).

5.8 Customer shall not connect the Facility, or any portion of it, to Lodi’s electric distribution system, until written approval of the Facility has been given to Customer by Lodi. Such approval shall not be unreasonably withheld. Lodi shall have the right to have representatives present at the initial testing of Customer’s Facility. The Customer may operate the system only upon completion of all of the following: a) Approval of final inspection by the Lodi Building Department; b) Full execution of the Interconnection Agreement; and c) Installation of metering equipment per Sections 5.4 and 5.5 of this Interconnection Agreement. Lodi will not issue a separate “Permission to Operate” letter.

5.9 Customer may reconnect its Facility to the Lodi system following normal operational outages and interruptions by the Customer, without notifying Lodi unless Lodi has disconnected service or Lodi notifies customer that a reasonable possibility exists that reconnection would pose a safety hazard.

If Lodi has disconnected service to the Facility, or Lodi has notified Customer that a reasonable possibility exists that reconnection would pose a safety hazard, Customer shall call Lodi to request authorization to reconnect the Facility.

6.0 INTERCONNECTION DESIGN STANDARDS

6.1 Customer’s Facility, and all portions of it used to provide or distribute electrical power and parallel interconnection with Lodi’s distribution equipment shall be designed, installed, constructed, operated and maintained in compliance with this Agreement and Lodi’s Rules. Compliance with this section is mandatory unless prior written Lodi approval is provided for those specific items not in compliance. Exemptions shall be in writing, signed by Lodi, and shall be attached to and become a part of this agreement.

6.2 Customer shall conform to applicable California Electric Code (CEC) Standards [CEC 690] and applicable building codes.

6.3 Customer shall have a dedicated circuit from the inverter to electrical service panel with a circuit breaker or fuse [CEC 690-64(b) (1)].

6.4 Customer's overcurrent device at the service panel shall be marked to indicate facility power source [CEC 690-64(b) (4)].

6.5 The Customer's inverter shall have the following minimum specifications for parallel operation with Lodi

Inverter output shall automatically disconnect from Lodi source upon loss of Lodi voltage and not reconnect until Lodi voltage has been restored by Lodi [CEC 690-61].

Inverter shall meet the applicable requirements of IEEE 929, "Recommended Practice for Utility Interface of Photovoltaic (PV) Systems," IEEE 519, "Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems," and Underwriters Laboratories (UL) 1741, "Standard for Static Inverters and Charge Controllers for Use in Photovoltaic Power Systems."

6.6 The Customer shall comply with Lodi's Engineering Construction Standard 942 0240.

6.7 The Customer shall provide a copy of the results page from the California Solar Initiative online calculator. Got to www.csi-EPBB.com/default.aspx, and enter all required system array data into the Expected Performance Based Buydown (EPBB) calculator. Enter the following: Zip code = (95240, 41, and 42); Utility = PG&E; Incentive Type = EPBB.

6.8 If an energy storage facility (battery) is installed, the inverter output shall automatically disconnect from Lodi source upon loss of Lodi voltage and not reconnect until Lodi voltage has been restored by Lodi.

7.0 MAINTENANCE AND PERMITS

Customer shall: (a) maintain the Facility in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, requirements of Section 6.0 above, and (b) to the extent that future requirements may require, obtain any governmental authorizations or permits required for the operation of the Facility. Customer shall reimburse Lodi for any and all losses, damages, claims, penalties, or liability Lodi incurs as a result of Customer's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of the Customer's Facility.

8.0 ACCESS TO PREMISES

Lodi may enter Customer's premises without prior notice (a) to inspect at all reasonable hours Customer's protective devices and read or test any meter for the Facility and (b) to disconnect, at any time, without notice, the Facility if, in Lodi's sole opinion, a hazardous condition exists. The Customer's protective devices, disconnects and facilities for the Lodi metering equipment shall not be located behind locked gates, as viewed from the street, or have access obstructed by landscaping, stored materials and/or equipment (Lodi Municipal Code section 13.20.130).

9.0 INDEMNITY AND LIABILITY BY CUSTOMER

9.1 Customer shall indemnify and hold Lodi, its elected officials, officers, agents and employees harmless against all loss, damages, expense and liability to third persons for injury or death of persons or injury to property caused by the Customer's engineering, design, construction, installation, ownership, maintenance or operations of, or the making of replacements, additions or betterment to, or by failure of, the Facility in connection with this Agreement by reason of omission or negligence, whether active or passive. Customer shall, on Lodi's request, defend any suit asserting a claim covered by this indemnity provision. Customer shall pay all costs, including attorney fees, that may be incurred by Lodi in enforcing this indemnity provision.

9.2 Nothing in this Agreement shall be construed to create any duty to, any standard of care with reference to, or any liability to, any person not a party to this Agreement. Neither Lodi, its elected officials, agents or employees shall be liable for any claims, demands, costs, losses, causes of action, or any other liability of any nature or kind, arising out of the engineering, design, construction, ownership, maintenance or operation of, or making of replacements, additions or betterment to, Customer's Facility except to the extent actually caused by the sole and gross negligence of Lodi.

9.3 Neither Lodi, its elected officials, agents or employees shall be liable for damages of any kind to the Facility caused by any electrical disturbance of the Lodi system or on the system of another, whether or not the electrical disturbance results from the negligence of Lodi or not.

9.4 In connection with the Customer's performance of its duties and obligations under this Agreement, the Customer shall maintain, during the term of the

Agreement, general liability insurance covering bodily injury and property damage in accordance with Lodi's Rules.

9.5 Lodi shall have the right to inspect or obtain a copy of any policy of insurance required in accordance with Lodi's Rules.

10.0 GOVERNING LAW AND VENUE

This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California. Venue for any legal proceedings brought under this Agreement shall be with the San Joaquin County Superior Court.

11.0 AMENDMENTS, MODIFICATIONS OR WAIVER

This Agreement will at all times be subject to Lodi's Rules, as amended from time to time. Any changes in Lodi Rules which would act to modify this Agreement shall automatically be incorporated herein without the need for a formal amendment.

Except as otherwise provided herein, any amendments or modifications to this Agreement shall be in writing and agreed to by both Parties. The failure of any Party at any time or times to require performance of any provision hereof shall in no manner affect the right at a later time to enforce the same. No waiver by any Party of the breach of any term or covenant contained in this Agreement, whether by conduct or otherwise, shall be deemed to be construed as a further or continuing waiver of any such breach or a waiver of the breach of any other term or covenant unless such waiver is in writing and signed by the Parties.

12.0 NOTICES

All written notices shall be directed as follows:

City of Lodi Electric Utility
Attn: Customer Programs
1331 S Ham Lane, Lodi, CA 95242

Customer's notices to Lodi pursuant to this Section 12 must refer to the Building Permit Number set forth in Section 1.1.

CUSTOMER: Customer name and billing address as shown on front page.

Notice by first-class mail, postage prepaid, shall be deemed to have been made 3-days from the date of mailing. Notice by overnight delivery or hand-delivery shall be deemed to have been made as of the date of receipt.

13.0 TERM OF AGREEMENT

This Agreement shall be in effect when signed by the Customer and Lodi. This Agreement shall remain in effect unless terminated by either Party upon thirty (30) days prior written notice in accordance with Section 12. Lodi may terminate this Agreement for any violation of this Agreement or any violation of Lodi's Rules.

14.0 ENTIRE AGREEMENT

This Agreement constitutes the entire agreement of the understanding of the Parties and supersedes all offers, negotiations, and other agreements of any kind. There are no representations or understandings of any kind not set forth herein. Any modification of or amendment to this Agreement must be in writing and executed by the Parties.

15.0 SIGNATURES

The signatories to this Agreement represent that each has full right, power, and authority to execute this Agreement on behalf of the entity each purports to represent.

IN WITNESS WHEREOF, the Parties hereto have caused one original of this Agreement to be executed by their duly authorized representatives. This Agreement is effective as of the last date set forth below.

CUSTOMER

SIGNATURE DATE

NAME TITLE
CITY OF LODI, a municipal corporation, Electric Utility

SIGNATURE DATE

NAME TITLE
ELECTRIC UTILITY

SIGNATURE DATE
ELECTRIC UTILITY DIRECTOR

NAME TITLE

ATTEST & APPROVED AS TO FORM

CITY OF LODI CITY ATTORNEY



Acknowledgement Of Renewable Energy Credit Ownership For Solar PV System

This form clarifies ownership of the Renewable Energy Credits (RECs) resulting from the installation of a solar PV system located at:

Site Address: _____

In accordance with [Lodi Municipal Code Section 13.20.290](#), the customer owns any RECs resulting from power generated up to an amount that meets, but does not exceed the power used at their home/business on a monthly basis. Any RECs resulting from power generated over and above the power used by the customer's home/business on a monthly basis belong to Lodi Electric Utility (LEU).

Upon signing this agreement, both the customer and installing contractor acknowledge the following:

- 1) That I/We understand and agree to the statements above clarifying ownership of the RECs resulting from the PV system at the site listed above.
- 2) That I/We understand and agree that the assignment of RECs as described in this Agreement supersede the assignment of REC's by the customer in any other agreement the customer may enter into with any other party.
- 3) That I/We waive all rights and claims to RECs resulting from power generated over and above the power used by the customer's home/business on a monthly basis.

Signatures

I understand the above and certify that I am a **Customer** of LEU, that I have the authority to assign RECs resulting from the PV installation, that the product(s) are installed and operating at the location indicated and that this address is within LEU service territory.

CUSTOMER SIGNATURE _____ **DATE** _____

I understand the above and certify that I am the **Installing Contractor** of the solar PV system installed at the site listed above, that I have the authority to waive rights to any credits as defined in this Agreement.

CONTRACTOR SIGNATURE _____ **DATE** _____

A copy of this Acknowledgment Form signed by both the Customer AND the Installing Contractor must accompany any application for solar PV system interconnection to LEU's grid.

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CERTIFIED COMPONENTS:

A nationally recognized testing laboratory must certify all the components in a residential or commercial generation system. These certifications are to include but are not limited to the following:

1. Photovoltaic modules shall meet the requirements of the Underwriters Laboratory (UL) Standard 1703.
2. Inverters shall meet the requirements of UL 1741.
3. Overall system design and individual component specifications shall be in accordance with this standard and California Electric Code Book (CEC) Article 690.

METERING:

Metering will be applicable for generation systems up to 1 MW in capacity. Metering will be provided by the City of Lodi in accordance with the established Rules and Regulations Section 21.H. After the customer has paid all appropriate fees and all paperwork is completed and approved, the City will set a Meter rated for the voltage supplied. Billing will be in accordance with the established City of Lodi Electric Rate Schedule.

GENERATION METERING:

All Photovoltaic Systems must be installed with a generation meter socket to receive a City of Lodi supplied meter so that the City and the customer can monitor and measure the system's generation.

VISUAL OPEN LOCKABLE AC DISCONNECT:

A visual open lockable AC disconnect device (Square D DU221RB or approved equal) shall be installed between the alternate energy source and the alternate energy source meter. This disconnect must be within 10' of the Main Service Entrance Panel, on the same wall surface/face and must be accessible to the City at all times.

LABELING:

Photovoltaic systems must be labeled in accordance with the requirements of this standard. All labels shall be affixed in a permanent manner appropriate to the installed device.

Drawing name: M:\DATA\CAD\Standards\Spec\09420240_1.dwg Plotted: Oct 23,2017 - 11:09am

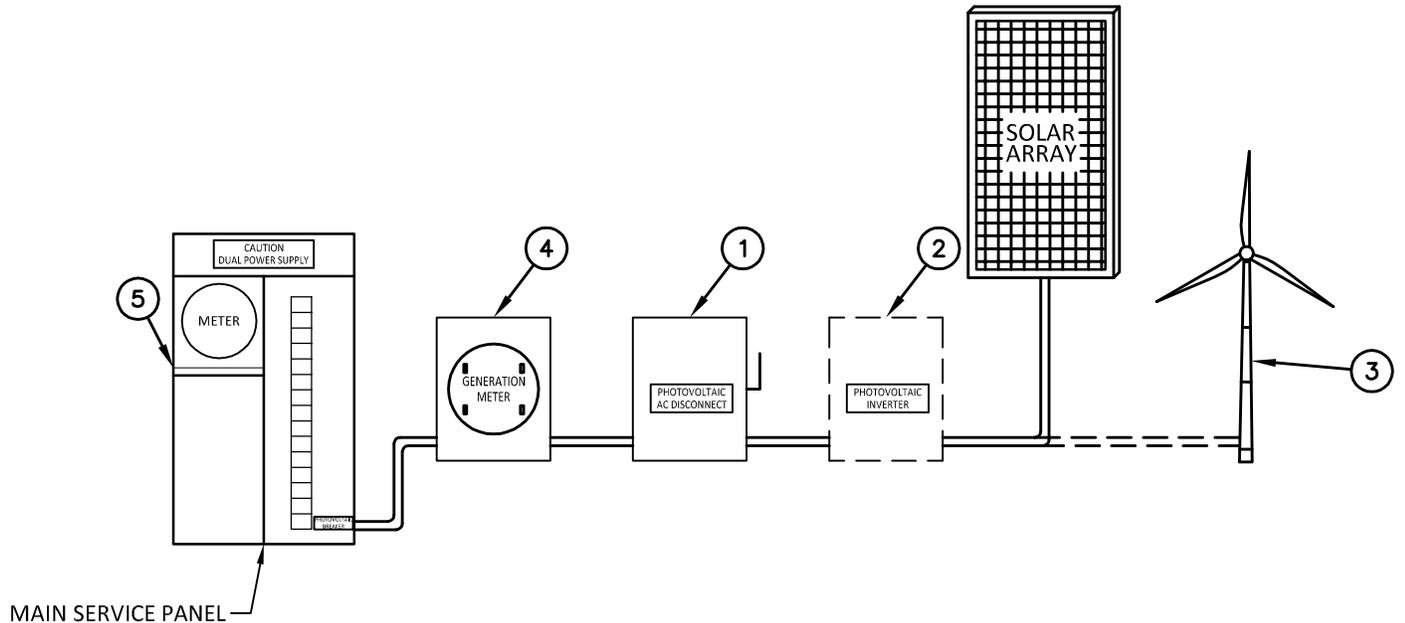
5	ADDED BATTERY BACKUP SPECIFICATIONS	10/23/17	RT	HS	HS
4	PV SYSTEM CHANGED FROM NEM TO EP	7/26/17	RT	HS	HS
3	PV SYSTEM CHANGE TO NET METER STYLE	1/12/16	CW	TC	HS
No.	REVISIONS	DATE	BY	CK'D	APP'D



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
GENERATION METERING

03/31/06	EF	EF	AMS	 04-03-06	SHEET 1 OF 4	942 0240
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	



NOTES:

- ① A/C DISCONNECT SHALL BE MANUALLY OPERATED, LOCKABLE AND HAVE A VISIBLE OPEN POINT. A/C DISCONNECT ACCESSIBLE TO CITY OF LODI AT ALL TIMES AND SHALL BE MOUNTED WITHIN 10' OF THE MAIN SERVICE ENTRANCE PANEL AND ON THE SAME WALL SURFACE/FACE.
- ② THIS IS FOR REFERENCE ONLY IF STAND ALONE INVERTERS ARE USED.
- ③ THIS SPECIFICATION SHALL BE USED FOR ALL RENEWABLE ENERGY SOURCES (EX. P.V., WIND, BIO-MASS GENERATORS, ETC.)
- ④ GENERATION METER SOCKET UPPER JAWS (SOURCE) SHALL BE WIRED FROM THE PHOTOVOLTAIC INVERTER/SOLAR ARRAYS. GENERATION METER SOCKET LOWER JAWS (LOAD) SHALL BE WIRED TO THE PHOTOVOLTAIC BREAKER IN MAIN SERVICE PANEL PANEL.
- ⑤ NO WORK SHALL OCCUR ON THE UTILITY SIDE OF THE MAIN SERVICE BREAKER. THE PHOTOVOLTAIC SYSTEM SHALL BE CONNECTED ON THE LOAD SIDE OF THE MAIN SERVICE BREAKER.

ALL ELECTRICAL CONSTRUCTION MUST MEET CITY OF LODI MUNICIPAL CODES AND CALIFORNIA ELECTRIC CODE BOOK REQUIREMENTS.

Drawing name: M:\DATA\CADStandards\Spec\0942\0240_2.dwg Plotted: Oct 23,2017 - 11:33am

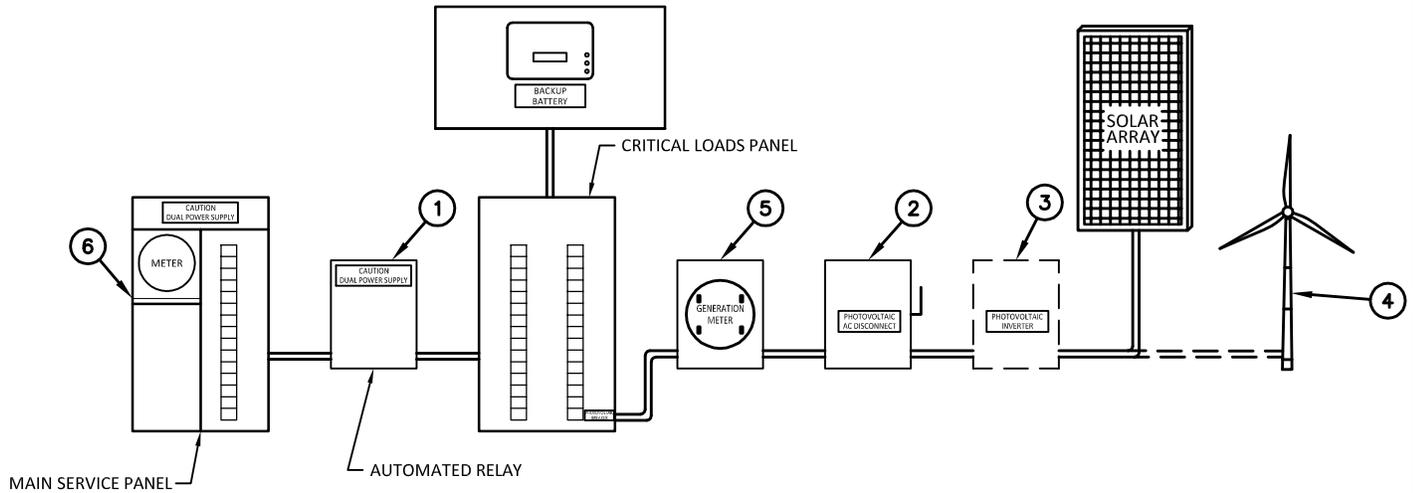
No.	REVISIONS	DATE	BY	CK'D	APP'D
5	ADDED BATTERY BACKUP SPECIFICATIONS	10/23/17	RT	HS	HS
4	PV SYSTEM CHANGED FROM NEM TO EP	7/26/17	RT	HS	HS
3	PV SYSTEM CHANGE TO NET METER STYLE	1/12/16	CW	TC	HS



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
GENERATION METERING

10/23/17	BG	HS	<i>HZ</i>	<i>HZ</i>	SHEET 2 OF 4	942 0240
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	



NOTES:

- ① AUTOMATED RELAY SHALL DISCONNECT UTILITY CONNECTION AUTOMATICALLY IN THE EVENT OF A LOSS OF UTILITY POWER. (INCLUDE MANUFACTURER SPECIFICATIONS FOR EQUIPMENT ALONG WITH SUBMISSION TO LODI ELECTRIC UTILITY DEPARTMENT.)
- ② A/C DISCONNECT SHALL BE ACCESSIBLE TO CITY OF LODI AT ALL TIMES AND SHALL BE MOUNTED WITHIN 10' OF THE MAIN SERVICE ENTRANCE PANEL AND ON THE SAME WALL SURFACE/FACE.
- ③ THIS IS FOR REFERENCE ONLY IF STAND ALONE INVERTERS ARE USED.
- ④ THIS SPECIFICATION SHALL BE USED FOR ALL RENEWABLE ENERGY SOURCES (EX. P.V., WIND, BIO-MASS GENERATORS, ETC.)
- ⑤ GENERATION METER SOCKET UPPER JAWS (SOURCE) SHALL BE WIRED FROM THE PHOTOVOLTAIC INVERTER/SOLAR ARRAYS. GENERATION METER SOCKET LOWER JAWS (LOAD) SHALL BE WIRED TO THE PHOTOVOLTAIC BREAKER IN CRITICAL LOAD PANEL.
- ⑥ NO WORK SHALL OCCUR ON THE UTILITY SIDE OF THE MAIN SERVICE BREAKER. THE PHOTOVOLTAIC SYSTEM SHALL BE CONNECTED ON THE LOAD SIDE OF THE MAIN SERVICE BREAKER.

ALL ELECTRICAL CONSTRUCTION MUST MEET CITY OF LODI MUNICIPAL CODES AND CALIFORNIA ELECTRIC CODE BOOK REQUIREMENTS.

Drawing name: M:\DATA\CADStandards\Spec\0942\0240_3.dwg Plotted: Oct 23, 2017 - 11:32am

No.	REVISIONS	DATE	BY	CK'D	APP'D
5	ADDED BATTERY BACKUP SPECIFICATIONS	10/23/17	RT	HS	HS
4	PV SYSTEM CHANGED FROM NEM TO EP	7/26/17	RT	HS	HS
3	PV SYSTEM CHANGE TO NET METER STYLE	1/12/16	CW	TC	HS



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
GENERATION METERING WITH BATTERY BACKUP

10/23/17	BG	HS	<i>HZ</i>	<i>HZ</i>	SHEET 3 OF 4	942 0240
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	

LABELS SHOWN AT MINIMUM SIZE

①

**CAUTION
DUAL POWER SUPPLY**

②

**PHOTOVOLTAIC
BREAKER**

③

**PHOTOVOLTAIC
AC DISCONNECT**

④

**PHOTOVOLTAIC
INVERTER**

NOTES:

1. LABELS SHALL BE MADE OF RED PLASTIC MATERIAL WITH ENGRAVED WHITE LETTERS.
2. "PHOTOVOLTAIC BREAKER" LETTER TO BE 1/8" MINIMUM IN HEIGHT, ALL LETTERING SHALL BE 1/4" MINIMUM IN HEIGHT.

Drawing name: M:\DATA\CADStandards\Spec\09420240_4.dwg Plotted: Oct 23, 2017 - 11:14am

No.	REVISIONS	DATE	BY	CK'D	APP'D
5	ADDED BATTERY BACKUP SPECIFICATIONS	10/23/17	RT	HS	HS
4	PV SYSTEM CHANGED FROM NEM TO EP	7/26/17	RT	HS	HS
3	PV SYSTEM CHANGE TO NET METER STYLE	1/12/16	CW	TC	HS



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
GENERATION METERING
(LABELING REQUIREMENTS)

03/31/06	EF/RT	EF	<i>AMS</i>	<i>[Signature]</i> 04-03-06	SHEET 4 OF 4	942 0240
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	