



Solar Power Installation Application

*This Form must be filled out and submitted to Logan City Light and Power Department and given authorization to proceed **PRIOR** to installing a solar system. Also, please refer to Logan City Light and Power’s Net Metering Policy for specific requirements.*

Please carefully read all of the following information. Fully complete the form and submit to LCL&P, by:

fax: 716-9701,

mail to: Logan City Light and Power, Solar Power Application, 290 N 100 W, Logan, Utah 84321.

email: dixie.swensen@loganutah.org

Your installation contractor should provide all of the information on the Solar Electric Equipment.

Please Note: A signature from Logan Light and Power is required that signifies that the purchaser or customer has watched an orientation video by Logan City Light and Power before this application can be submitted. If it is submitted without this orientation, the application will be rejected. This video is on YouTube at: <https://youtu.be/Sr-Q8puj50M> if you have questions call (435) 716-9700.

Contractor: You MUST attend Contractor orientation with Logan City Light & Power. You MUST have Utah Business Licenses E201 and E202. You MUST be NABCEP certified. If you do not have ALL of these requirements, the application will be rejected.

Fees:	Residential	Commercial
Building Permit	\$200	\$200
Solar Application and Design Review Fee	\$150	\$150
Production meter	\$147	\$435
Power to Panel Upgrade (if necessary)	\$30	\$30
Total	\$482	\$770

Solar Orientation Signature Page

This page certifies that the homeowner has completed the Solar Orientation Course required by the City. This page must be signed before the solar contractor can apply for design review and a building permit.

NOTE: This is **NOT** a design approval.

Property Owner's Signature

Date

Approval by Logan City Light & Power for submission

Date

A) Customer Information:

- 1) Customer Name: _____
- 2) Customer Mailing Address: _____
- 3) Installation Address (if different): _____
- 4) Customer Account Number: _____
- 5) Phone Number and Email: _____

B) Contractor Information:

- 1) Company Name: _____
- 2) Contact Name: _____
- 3) Phone Number and Email: _____
- 4) Contractor License #: _____
- 5) License Type: _____
- 6) Sales Company Information (N/A if same as Contractor Information):
 - i) Company Name: _____
 - ii) Company Address: _____
 - iii) Contact Name: _____
 - iv) Contact Phone Number and Email: _____

C) Equipment Information:

1) Solar Electric Module

- i) Manufacturer: _____
- ii) Model Number: _____
- iii) Power Rating per Module: _____ DC Watts
- iv) Number of Modules: _____
- v) Total Array Output: _____ DC Watts (# of Modules * Power Rating)
- vi) Conductor Type: _____ AWG or kcmil: _____
- vii) Number of Conductors: _____
- viii) Are you installing a combiner box with fuses? No/Yes if yes, size? _____

2) Inverter Information

- i) Manufacturer: _____
- ii) Model Number: _____
- iii) Continuous AC Nameplate Rating: _____ AC Watts

- iv) Number of Inverters: _____
- v) Total Output: _____ AC Watts (AC Rating * # of Inverters)
- vi) Inverter's Peak Efficiency: _____ (refer to manufacturer's peak efficiency rating)

D) Installation Information:

- 1) Solar Array Location: Rooftop Pole Mount Ground Mount
- 2) Electric Module Orientation: _____ degrees (e.g. 180 degrees magnetic south)
- 3) Solar Electric Module Tilt: _____ degrees (e.g. flat mount = 0 degrees)
- 4) Solar Electric Module Tracking: Fixed Single-axis Double-axis
- 5) Inverter Location: Indoor Outdoor

Detailed Description: _____

- 6) Utility- Accessible AC Disconnect Switch Location (*should be within sight and within 3 feet of bi-directional meter when possible all other locations must be approved by Logan City Light & Power*) _____

The Production meter shall be located on the exterior of the building within 10 feet of the bi-directional meter. In addition, the production meter socket, for residential installation, shall be a Milbank 125-Amp Ringless Single Phase (120/240) or equivalent Meter Socket.

- 7) System Type and Mode of Operation:
 - Utility Interactive (parallel/capable of back feeding the meter, IE net metering)
 - Dedicated circuit, utility power as backup (transfer switch)
 - Stand-alone (system confined to an independent circuit, no utility backup)

- 8) Does this system include batteries or generator backup? Yes No
 Note: if "Yes" there will be additional review and data submitted

- 9) System rated output: _____ DC Watts

E) Other Requirements:

All equipment, signage, and installation practices must meet NEC codes 690 & 705.

A one-page site map and system one-line diagram must accompany this application. This document must indicate the location of the solar electric modules, inverter, batteries (if any), lockable disconnect switch, and point of connection with the utility system. All electrical equipment specifications and calculations must be shown on the one-line. Any signs/labels should be shown with their respective calculated values on the one-line. The installation address, current account number at that address, and the installer's name and telephone number must also be included.

All datasheets for the proposed equipment (solar panels, inverters, cable, etc...) must be included in the application as well as a structural load design and letter from a structural engineer licensed in the State of Utah.

F) Signs & Labels:

Labels shall be phenolic where exposed to sunlight. Hand-written marker pen labeling is not allowed. Labels shall be red background with white lettering. Lettering must be at least 3/8" in height. The following labels must be provided.

NEC Article	Required Location for Label	Wording
690.5 (c)	Utility-interactive inverter, battery enclosure	"WARNING: ELECTRIC SHOCK HAZARD IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED"
690.10 (c)	Single source systems only	"WARNING: SINGLE SOURCE 120 VOLT SUPPLY, DO NOT CONNECT MULTI-WIRE BRANCH CIRCUITS"
690.14 (c)(2)	AC & DC disconnects	"PHOTOVOLTAIC SYSTEM DC DISCONNECT" "PHOTOVOLTAIC SYSTEM AC DISCONNECT"
690.17	Placed on disconnect from the solar panels to the PV system	"WARNING: ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION"
690.35 (f)	For ungrounded systems. On each junction box, combiner box, and disconnect	"WARNING: ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED"
690.53	DC disconnects. This section must be completed if a main inverter system is being installed	"Operating current _____ Operating voltage _____ Maximum system voltage _____ Short circuit current _____ Maximum rated output current of the charge Controller (if used) _____"
690.54	At the interactive points of interconnection, usually the main service	"Rated AC output current _____ Normal operating AC Voltage _____"
690.56 (b)/ 705.10	At the electrical service and at the photovoltaic inverter if not located at the same location. Every effort should be made to have the inverter and AC & DC disconnect near the electrical service	A directory providing the location of the service disconnect means and the photovoltaic system disconnect means.

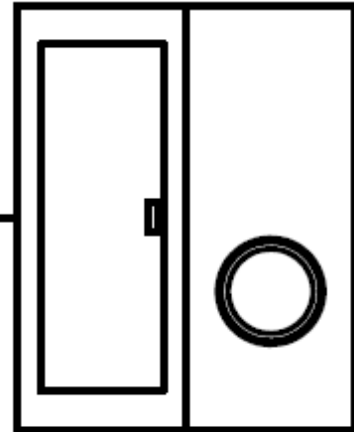
Utility Requirement	Back-fed panel boards, inverter output OCPD	"WARNING: INVERTER OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE"
Utility Requirement	On conduit, raceways, enclosures, marked every 10', at turns, above or below penetrations	"CAUTION: SOLAR CIRCUIT"
Utility Requirement	Main electrical service	"WARNING: MULTIPLE SOURCES OF POWER. A PV SYSTEM IS PRESENT. DISCONNECT ALL POWER SOURCES BEFORE SERVICING"

SAMPLE SYSTEM DIAGRAM

**PV OUTPUT
METER (WITHIN 10' OF
BI-DIRECTIONAL METER)
LOCATED BY
UTILITY DISCONNECT**

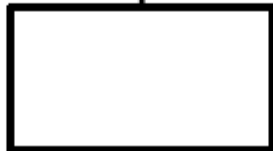
**AC DISCONNECT (WITHIN
SIGHT AND 3' OF
BI-DIRECTIONAL METER)
[PROVIDE MFGR & MODEL]**

**BI-DIRECTIONAL METER TO BE
CONNECTED TO LINE
SIDE OF PRODUCTION METER
(TOP).**



BI-DIRECTIONAL METER

**SOLAR PANELS TO BE
CONNECTED ON LOAD SIDE
OF PRODUCTION METER
(BOTTOM).**



**DC/AC
INVERTER
[PROVIDE MFGR & MODEL]**

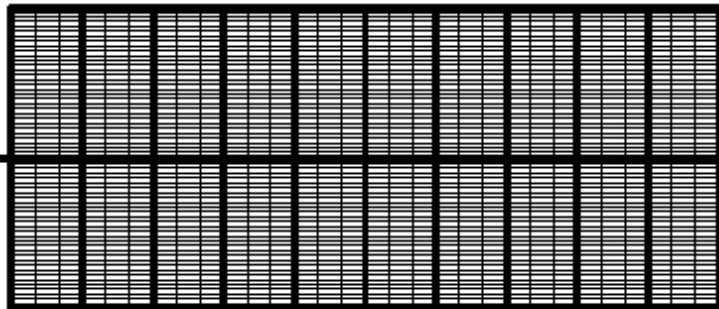
[PROVIDE CONDUCTOR SIZES & TYPE]



**DC
DISCONNECT
[PROVIDE MFGR & MODEL]**



**CIRCUIT COMBINER
JUNCTION BOX
[PROVIDE MFGR & MODEL]**



**PV ARRAY
[PROVIDE MFGR & MODEL]**

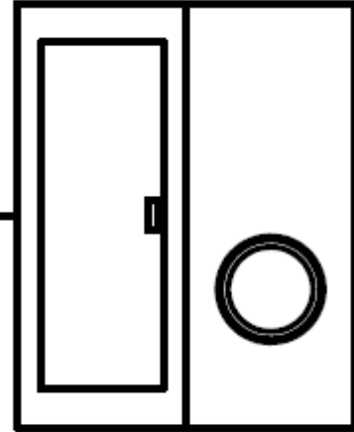
SAMPLE SYSTEM DIAGRAM

**PV OUTPUT
METER (WITHIN 10' OF
BI-DIRECTIONAL METER)
LOCATED BY
UTILITY DISCONNECT**

**AC DISCONNECT (WITHIN
SIGHT AND 3' OF
BI-DIRECTIONAL METER)
[PROVIDE MFGR & MODEL]**

PV ARRAY BREAKER

**BI-DIRECTIONAL METER TO
BE CONNECTED TO LINE
SIDE OF PRODUCTION
METER (TOP).**



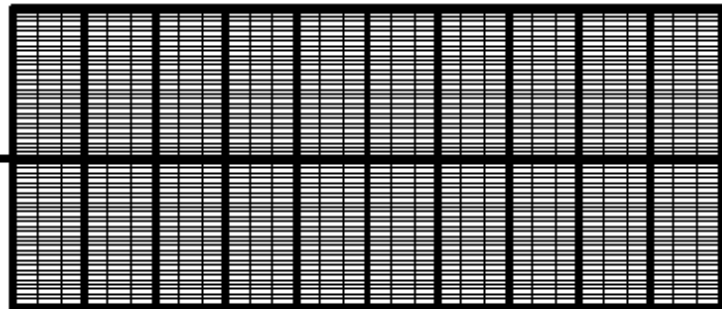
BI-DIRECTIONAL METER

**SOLAR PANELS TO BE
CONNECTED ON LOAD SIDE
OF PRODUCTION METER
(BOTTOM).**

**DC/AC
INVERTER
[PROVIDE MFGR & MODEL]**

**LOAD CENTER
[PROVIDE MFGR & MODEL]**

[PROVIDE CONDUCTOR SIZES & TYPE]



**PV ARRAY
[PROVIDE MFGR & MODEL]**