

RESIDENTIAL - SOLAR PANEL PLAN SUBMITTAL REQUIREMENTS

PLAN SUBMITAL CHECK LIST – The following is a list of items required for residential SOLAR PANEL plan submittal. The Planning Department or the Plans Examiner may require additional information to complete their review. Please review and check each box indicating its completion and sign the bottom of the page.

1. MURRAY POWER APPROVAL REQUIRED - Please contact Murray Power at netmetering@murray.utah.gov

- Net Metering Interconnection & Service Agreement (see Murray City Power Net Metering Checklist)

2. BUILDING PERMIT APPLICATION –online at <https://murray.ut.eprocess360.com/>

- Submit plans and all required information completed including owner, contractor and subcontractor information and project valuation.

3. SITE PLAN (PLOT PLAN):

- North Arrow
- Location of Home (roof view if desired)
- Location of all PV system components on house and/or property including: Main Meter*, Production Meter*, AC Disconnect*, Module Array(s), Electrical Panel(s), Inverter(s), Pass Through Box(es), etc.

* Must be grouped in area not to exceed 6 feet

4. ONE-LINE DIAGRAM showing the following information:

- Type of PV system (single inverter, micro inverter or AC module system)
- Main Meter
- Production Meter
- Disconnect type and rating
- Inverter type and rating
- Number and layout of modules and how they are connected together (in series or in parallel)
- Maximum system KW output (not to exceed 10 kW)
- Labeling diagram and placement
- Types and sizes of electrical wiring and conduit
- Ratings of all fuses or breakers
- Location and size of all grounding

5. MODULES / INVERTERS / COMBINER BOXES / ROOF SYSTEM:

- List name/manufacturer/model/ratings of all modules, inverters and combiner boxes
- Provide manufacturer's detailed specification sheets including installation guides for above items
- Please have engineer of record confirm roof is capable of supporting the additional loads from the new solar array.

6. ELECTRICAL PANEL

- Provide photo of interconnection panel
- Show any other boxes to be mounted and interconnected to electrical panel

7. OTHER SYSTEM COMPONENTS

- Provide information on all other different components to be used in the system, their UL listing and installation information, etc.

8. SAFETY AND WARNING LABELS:

- Main meter base and production meter base labeled with permanent, engraved labels; mechanically fastened with rivets, screws, or bolts (not tape), stating "Solar Generation On Site" or equivalent
- Safety Disconnect Switch labeled as above, stating "Solar Power Disconnect" or equivalent
- List specific Warning Labels to be used (show samples)
- Show location(s) where warning labels are to be posted

Murray City Power

Net Metering Checklist

Interconnection Agreement

Complete the *Murray City Power Interconnection Agreement* and email to:

netmetering@murray.utah.gov Once the Interconnection Agreement has been reviewed and approved by Murray City Power, a signed copy will be sent back to the customer/contractor via email.

Building Permit

Obtain building permit and complete plan submittal checklist with Murray City Building Inspection Division, 10 E. 4800 S. Murray, UT 84107, (801) 270-2431

Purchase Net Meter

Please make checks payable to Murray City Power. Payment may be mailed or hand-delivered to the Murray City Power office building: 153 West 4800 South, Murray, UT 84107.

- Residential Customer Net Meter - \$250
- Commercial Customer Net Meter - \$350

Installation of Solar System

Please note the following Murray City requirements:

- Solar system must include a production/generation meter, in addition to the net meter; Murray City Power covers the cost of this meter
- Meter-base must be labeled with a permanent, engraved label; mechanically fastened with rivets, screws, or bolts (no double-sided tape) which states "Solar Generation On Site" or equivalent.
- A separate safety disconnect must be installed between the solar system inverter and the production meter base, and located within several feet of the net meter base. This switch must be manually operated and designed such that the actual contacts of the switch are visible to determine whether they are open or closed. Meter base circuit breakers do not satisfy this requirement, nor does a solar system's integrated inverter disconnect. The safety disconnect must be labeled as per requirements above, stating "Solar Power Disconnect" or equivalent.
- Customer/Contractor is not permitted to connect panels to Murray's system until the new net meter is installed. If the system is connected before the new meter is installed, all excess kWh produced by the system will be seen by the existing meter as kWh consumed, not generated, resulting in an extra cost to the customer instead of a credit.

Final Inspection

Once installation of the solar system is complete, please contact the Murray City Building Inspection Division to schedule an inspection: (801) 270-2431

Net Meter Installation

Once the final inspection is complete, please contact Victor Meza, Metering Supervisor at 801-264-2724 to schedule a time to meet with customer/contractor to test the new system and install the net and production meters. Murray City Power will notify the Murray Utility Billing Division to activate customer's net meter account.

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