RENEWABLE ENERGY NET METERING SYSTEM PLAN REVIEW CHECKLIST

Please check to ensure that the following are included in the plan submittal:

- Electrical Permit Application
- Completed Net Metering Sign-off Form MCPU
- Completed all application processes required by Mt. Carmel Public Utility Co.
- Installed in accordance with the National Fire Protection Association, National Electric Code (NFPA 70), applicable ordinances, and/or special use categories (e.g.: zoning or special use, etc.); subject to plan approval.

Note: The National Electrical Code (NEC) is the City of Mount Carmel's adopted electrical code.

Note: Mt. Carmel Public Utility is a separate entity and all their requirements must be met for approval

Construction Documents:

- Site specific, assembly installation plans, manufacturer's installation instructions, and/or equipment manufacturer's data sheets.
- Make, model, and quantity of module, inverter, and racking system certified to the UL 2703, UL 62109, and UL 1741 standard by a Nationally Recognized Testing Laboratory as appropriate.
- Framing plans
- Method of sealing/flashing for roof penetrations.
- Connection details to building.
- Structural calculations or load diagram.
- Data cut sheets for battery storage if applicable (including type of battery).
- Roof plan showing location of equipment and, if required, fire setbacks.
- Existing site easements, property lines, building setback lines, zoning setbacks.
- Typical side view detail of the solar PV system mount on the roof.
- Location of all existing structures and proposed PV system equipment (including modules, disconnects, inverters, panel boards, combiner boxes, storage batteries, utility meters, etc.
- Electrical Plans: in addition to the construction documents, include a three-line diagram, or a line diagram that meets the requirements of the NEC.

A proper line diagram should include:

- AC and/or DC circuit arc fault protection as required by the NEC or ordinances (if any).
- Inverter listed to the UL 62109 or UL 1741 Safety Standard; photovoltaic module(s) listed to the UL 1703 safety standard listings conducted by a Nationally Recognized Testing laboratory.
- Inverter AC output disconnect location, utility disconnect location, and AC output over-current protection device rating.
- Location of combiner box(es), disconnect switch, size of source circuit overcurrent protection, if required.
- Service panel bus rating and main circuit breaker/fuse ampere rating.
- Circuit diagram with conduit, wire type and sizes, and/or cable type and wire sizes.
- Equipment grounding and bonding conductors and grounding electrode conductor, if applicable.
- Battery disconnects and overcurrent protections, if applicable.
- List of appropriate labels and marking per NEC and IFC requirements.

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