

Town of Apex
Electric Utilities Department

PHOTOVOLTAIC SYSTEM INTERCONNECTION & METERING NOTES

1. All customer installations must meet the requirements of NFPA 70, National Electric Code (NEC) and any state or local amendments in force at the time of installation.
2. Photovoltaic Inverter/Isolation System shall be UL1741 listed and meet the requirements of IEEE1547.
3. Town Service Conductors, Photovoltaic Generating System, Service Entrance & Meters:
 - a. For Bilateral Metering – The Town Service Conductors shall be connected to the Line (Top) Lugs of the Customer’s Consumption Meter and shall be connected to the Load (Bottom) Lugs of the Photovoltaic Generating System Meter. The Customer Service Entrance Conductors shall be connected to the Load (Bottom) Lugs of the Customer’s Consumption Meter.
 - b. For Net Metering – The Town Service Conductors shall be connected to the Line (Top) Lugs of the Consumption Meter and the Load (Bottom) Lugs shall be connected to the Customer’s Service Entrance. The Photovoltaic Generating System shall be connected directly to the Customer’s Premises Wiring System. An additional meter is not required.
4. Customer Conductors and Isolation Switch shall be sized in accordance with the requirements of the National Electrical Code.
5. Customer Isolation Switch shall be:
 - a. Labeled “Solar Panel Isolation Switch”
 - b. Isolation Switch shall be fused.
 - c. Isolation Switch shall be lockable in the open position.
 - d. Isolation Switch shall be accessible to the Town of Apex Electric Utilities Department and located within 6 feet of the customers Consumption Meter.
6. All Customer-Furnished and Install Meter Bases shall be of a type approved by the Town of Apex for Revenue Metering.
7. Single-Phase Utility-Interactive Inverter Systems shall not be connected to Three-Phase Supply System. See the NEC, Articles 690.63 & 705.100.
8. Sockets for Transformer-Rated (Class 20) Meters are installed by the Town of Apex. Sockets for all Self-Contained (Class 200 or Class 320) are installed by the Customer.
9. Physical Arrangement Drawings are for typical installations. Alternate arrangements require review and approval by the Town of Apex.
10. Transformer Cabinet penetrations are not allowed.