

Summary of Town of Princeton Municipal Light Department (PMLD)
“Requirements for Interconnection of Non-Utility Generators”
168 Worcester Road, Princeton, MA 01541 (978) 464-2815

The following is a listing of the major steps required for Customers to interconnection non-utility generators (NUG) and distributed generation (DG) to the PMLD distribution system. *Please refer to the complete interconnection requirements document for additional information.*

1. Interconnecting Customer should complete and submit the Application Form to the PMLD based on the proposed size of the distributed generation (either <30kW for residential customers or ≥30kW for commercial customers).
2. Interconnecting Customer should submit to PMLD copies of drawings, specifications, plans, etc. for proposed installation. PMLD will review the proposed installation to determine potential impact to PMLD distribution system and any required system construction necessary to support DG. See Section 3.0 of the PMLD Interconnection Requirements document.
3. Interconnecting Customer should design DG facility to meet the intent of Section 4.0 of the PMLD Interconnection Requirements document, along with appropriate industry standards, including the National Electric Code and IEEE Std 1547-2018 “*Standard for Interconnecting Distributed Resources with Electric Power Systems*”.
4. PMLD will provide cost estimates for any engineering design, review and construction costs associated with interconnecting the Customer’s DG to the PMLD Electric Power System (EPS). PMLD will also provide an Interconnection Services Agreement for customer signature, prior to the start of any construction on the PMLD EPS. Interconnecting Customer is responsible for the payment of all fees, studies, design and construction costs to interconnect their DG, including costs incurred by PMLD for studies and system modifications.
5. The Interconnecting Customer should consult the PMLD before designing, purchasing and installing any generation equipment, in order to verify the nominal utilization voltages, frequency, and phase characteristics of the service to be supplied, the capacity available, and the suitability of the proposed equipment for operation at the intended location. The following should also be noted:
 - a. Voltage, Frequency, Harmonic and Noise thresholds and limits must be maintained by the DG at all times. See Section 4.0 of the PMLD Interconnection Requirements document and IEEE Std 1547-2018 (or later).
 - b. PMLD will determine protection requirement for each DG project individually. Interconnecting Customer will install protective relaying to control either generator circuit breaker, or utility intertie circuit breaker, in order to trip the generator offline for abnormal conditions, or to prevent reverse power flow into the PMLD EPS (if agreed upon). All relaying shall be designed and set by the Interconnecting Customer and approved by PMLD.
 - c. An external disconnect switch (or compatible device) shall be installed and be accessible to and lockable by PMLD. PMLD shall have the right to open the disconnect switch in accordance with the Interconnection Requirements, or in times of emergency.
6. All facilities will be metered via bi-directional metering, as specification by PMLD. Interconnecting Customer is responsible for installation of metering equipment (sockets, CT’s etc.). PMLD to provide meter.
7. Once the DG facility is constructed and all modifications to the PMLD EPS have been made, the Interconnecting Customer should notify PMLD of their intent to commission the DG. Commissioning of DG equipment shall be in accordance with IEEE Std 1547-2018 and the latest edition of the International Electric Testing Association (NETA) Acceptance Testing Specifications (ATS) documents. PMLD to inspect completed installation and witness commissioning.
8. Authorization to interconnect will be provided once the Interconnecting Customer has met all terms of the interconnection process as outlined in the PMLD Interconnection Requirements document. Interconnecting Customer shall send written notification of completion of installation to PMLD and intent to generate electricity.
9. The Interconnecting Customer shall operate the DG facility in a safe manner with no adverse effects to the PMLD EPS or other Customers. The PMLD will operate the EPS in such a manner so as to not unreasonably interfere with the operation of the Facility. The Interconnecting Customer shall maintain their facility and equipment in accordance with current industry recommendations. PMLD shall have the right to witness or review maintenance tests.