

HPD Solar Where Feasible: Solar Technical Requirements

All solar electric installations subject to the New York City Department of Housing Preservation and Development's (NYC HPD) review/approval must meet the following technical requirements.

SYSTEM DESIGN LIFE

The solar energy systems must be designed to have a 25-year life, at minimum.

EQUIPMENT QUALITY AND DURABILITY

All PV modules, inverters, and electrical components shall be commercial off-the-shelf equipment, and be listed or recognized by an appropriate safety laboratory, e.g. Underwriters Laboratory (UL).

- **PV Modules:** solar electric modules must be certified as meeting all applicable standards of the Institute of Electrical and Electronics Engineers (IEEE) and Underwriter's Laboratory (UL) 1703 and detailed in the California Energy Commission (CEC) eligible list which can be found on the CEC website or NYSERDA's contractor portal.
- **Inverters:** inverters must be certified as meeting all applicable standards of IEEE and UL, comply with New York State's Standardized Interconnection Requirements, and meet the requirements of the local utility company Con Edison or Long Island Power Authority.
- **Solar Production Monitoring Equipment:** data acquisition system must include ANSI C12.20 revenue grade energy production meters (0.5% accuracy).
- **Solar Racking Equipment:** must be comprised of high-quality outdoor rated equipment and materials.
- **Components:** solar equipment and connection components must be commercially available to allow for maintenance and/or replacement. All components must be of corrosion resistant material.

WARRANTIES

- **PV Modules:** minimum product warranty of 10 years and a power production warranty which guarantees at least 80% production at year 25.
- **Inverters:** minimum warranty of 10 years, with a preference for extended warranties.
- **Solar Production Monitoring Equipment:** minimum warranty of 5 years on data acquisition hardware, with a preference for extended warranties.
- **Racking System:** minimum product warranty of 25 years.
- **Workmanship Warranty:** minimum warranty of 5 years. In accordance with NYSERDA's NY-SUN program requirements, the contractor must provide the purchaser of the solar electric system with a full five-year transferable warranty covering all components of the generating system against breakdown or degradation in electrical output of more than 10% from the original rated electrical output. The warranty will cover the full costs, including labor, repair, and replacement of defective components or systems.
- **Roof Warranty:** solar installation must be completed in coordination with the roofer/roofing manufacturer in a manner that does not void any existing roof warranty.

INSTALLER QUALIFICATIONS

- Installer must be a NY-SUN Participating Contractor in full compliance with all of NYSERDA's NY-SUN Residential/Small Commercial program rules, and have a satisfactory average quality assurance (QA) inspection score in the NY-SUN program. If eligible, the solar energy system must receive the NY-SUN incentive.

COMPLY WITH ALL APPLICABLE CODES

The solar energy system design and installation shall comply with all applicable codes and AHJ requirements.

INCENTIVES

All available incentives must be pursued and must be passed to the customer. All HPD projects must follow all program requirements.