

HUDSON LIGHT & POWER DEPARTMENT
Distributed Generation
Installation Requirements

Customers wishing to install a Distributed Generation (DG) system such as solar, wind turbine or other auxiliary generation intending to operate interconnected with Hudson Light and Power Department (HLPD) are required to provide HLPD with all the technical information for the system and related equipment at least four weeks prior to installation.

HLPD is a municipal utility and does not provide for net metering of customers with distributed generation.

Pricing for the electricity output of the DG system will be at HLPD's power adjustment charge as it is set from time to time and which currently is \$0.055800 per kilowatt-hour¹.

HLPD requires protection to be installed to prevent back feed to its system during utility outages. The installation must conform to IEEE 929-2000 (including the use of a Utility Interface AC Disconnect Switch per section 5.4), UL 1741, and to the requirements of the local wiring inspector.

The Utility Interface AC Disconnect Switch shall be knife blade type, shall be lockable, and shall be installed adjacent to the HLPD meter. It shall remain accessible to HLPD for emergency use. It shall be labeled with a phenolic nameplate, white letters on a red background, approximately 3" x 5" and shall read similar to:

**Solar (Wind, Auxiliary, etc) Power System
HLPD Interface
AC Disconnect Switch**

If UL 1741 is the standard to which the proposed DG system inverter is built, that standard provides adequate assurance that when manufactured the inverter will perform in a manner that prevents back feed during islanding.

- HLPD requires that the inverter be capable of separating the DG from the utility during island events for life of the system. The system must be tested at least once per year to demonstrate its ability to protect against back feed to the HLPD's system upon loss of line power. HLPD proposes a practical field test that is acceptable to both parties, rather than the certification tests specified in UL 1741. Should the unit fail to pass the periodic islanding test, the inverter must immediately be taken out of service until it is restored to proper operation and

¹ Power Adjustment Charge as of June 2009.

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successfully retested. HLPD reserves the right to witness such testing at its sole discretion.

- UL 1741 also imposes harmonic distortion limits on the inverter, and it will be the customer's responsibility to assure the system continues to perform within the limits after initial installation.

The installation of the DG system and inverter introduces potential liability for HLPD. Therefore, HLPD requires and the customer agrees that:

- In the event that a failure of the anti-islanding feature causes damage to property or injury to any person(s), the customer will bear sole responsibility for any claims or damages.
- The customer will also be solely responsible for any adverse impact to other customers as a result of a failure of his/her inverter to perform within the harmonic limits of UL 1741.
- In the event of adverse impact to other customers due to harmonic interference (or any other power quality issue) as a result of a failure of DG/Inverter to operate within the limits of UL 1741, the customer will be solely responsible for the costs to correct such impacts.
- The customer will hold HLPD harmless for any damages that might occur to his/her DG/Inverter system or his/her property as a result of the interconnection to the HLPD's system.
- HLPD's Terms and Conditions in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of these requirements.