| v3 - LEED 2008

Performance measurement - system-level metering

EAc3.3 | Possible 1 point

Glossary

Intent

To provide accurate energy-use information to support energy management and identify opportunities for additional energy-saving improvements.

Requirements

Develop a breakdown of energy use in the building, either through EA Credits 2.1 and 2.2 or by using energy bills, spot metering or other metering to determine the energy consumption of major mechanical systems and other end-use applications. This analysis of major energy-use categories must have been conducted within two years prior to the date of application for LEED for Existing Buildings: O&M certification.

Based on the energy-use breakdown, employ system-level metering covering at least 40% or 80% of the total expected annual energy consumption of the building. Permanent metering and recording are required. All types of submetering are permitted.

- **EA Credit 3.2** (1 point): Demonstrate that system-level metering is in place covering at least 40% of the total expected annual energy consumption of the building. Further, at least one of the two largest energy-use categories from the breakdown report must be covered to the extent of 80% or more (i.e., if energy use in the two largest categories is each 100 BTUs/year, at least 80 BTUs/year in one of them must be metered).
- **EA Credit 3.3** (1 point): Demonstrate that system-level metering is in place covering at least 80% of the total expected annual energy consumption of the building. Further, at least two of the three largest energy-use categories from the breakdown report must be covered to the extent of 80% or more.

Metering must be continuous and data logged to allow for an analysis of time trends. The project must compile monthly and annual summaries of results for each system covered. Meters must be calibrated within the manufacturer's recommended interval if the building owner, management organization or tenant owns the meter. Meters owned by third parties (e.g., utilities or governments) are exempt.

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