LEED O+M: Data Centers | v4

Existing building commissioning—analysis

Possible 2 points

Glossary

Intent

To use the existing building commissioning process to improve building operations, energy, and resource efficiency.

Requirements

Establishment

Evaluate the current performance of the project building against the performance specifications in the current facilities requirements and the operations and maintenance plan.

Identify the systems and components in the facility to be investigated and analyzed as part of the existing building commissioning or energy auditing process. Provide a breakdown of estimated resource use for each of these systems.

Option 1. Existing building commissioning

Develop an existing building commissioning plan to effectively inventory and evaluate specific opportunities within the systems being analyzed. The commissioning plan must include the following:

- updated current facilities requirements;
- the commissioning team members and their roles and responsibilities during the commissioning process;
- a description of the approach for identifying and analyzing facility improvement opportunities;
- the process for reviewing and prioritizing identified opportunities with the owner and developing an implementation plan;
- the format and content of the eventual deliverables from the commissioning process; and
- the proposed schedule.

Option 2. Energy audit

Develop an energy audit plan following the requirements of ASHRAE Level 2, Energy Survey and Analysis, to evaluate efficiency opportunities. The audit plan must include the following:

- the audit team members and their roles and responsibilities during the audit process;
- a description of the approach for identifying and analyzing facility improvement opportunities;
- the process for reviewing and prioritizing identified opportunities with the owner and developing an implementation plan;
- the format and content of the eventual deliverables from the audit process; and
- the proposed schedule.

Performance

Apply the requirements below to all direct energy-consuming or energy-producing systems, including lighting, process loads, HVAC&R, domestic water heating, and renewable energy.

Update the systems and components to be addressed as part of the existing building commissioning or energy auditing process. Provide a breakdown of estimated resource use for each of these systems.

Option 1. Existing building commissioning

Update and execute the existing building commissioning plan.

Option 2. Energy audit

Update and execute the energy audit plan following the requirements of ASHRAE Level 2, Energy Survey and Analysis.

For each opportunity, describe the potential improvement, estimated implementation costs, and anticipated savings.

In addition to the requirements above, data centers must use the Department of Energy's Save Energy Now Program's on-line DC Pro Energy Assessment Tools for data center critical systems.