



LEED 2009 for Retail: Commercial Interiors

EA CREDIT 3: MEASUREMENT AND VERIFICATION

All fields and uploads are required unless otherwise noted.

ALL OPTIONS

This static sample form has been modified for offline access. All sections of the form are visible. Sample forms are for reference only.

The ratio of project space to building space in which the project is located determines which compliance path is available to the project. The value below is linked from Project Information Form 2.

Project space gross square footage as a percentage of the building in which the project is located: %

CASE 1. PROJECT IS LESS THAN 75% OF TOTAL BUILDING AREA

Select one or both of the following:

- ☐ **Submetering equipment:** The project has installed submetering equipment to measure and record energy uses within the tenant space.
- ☐ **Lease:** The project has negotiated a lease where energy costs are paid by the tenant and not included in the base rent.

SUBMETERING EQUIPMENT

Table EAc3-1. Submetering Within Tenant Scope

		Submetering Equipment Installed	Central Plant	Not Applicable to Project Space
Lighting systems and controls		<input type="checkbox"/>		
Plug loads		<input type="checkbox"/>		
Heating	Electric	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Fuel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Steam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Hot Water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cooling	Electric	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Fuel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Chilled Water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Process Uses	Water	<input type="radio"/>		<input type="radio"/>
	Electric	<input type="radio"/>		<input type="radio"/>
	Fuel	<input type="radio"/>		<input type="radio"/>

Select one of the following:

- ☐ **Upload L-1** from PI Form 4 is a typical floor plan documenting the location of submetering equipment in the LEED project.

Files:

- OR ☐ **Upload EAc3-1.** Provide installation records OR a credit-specific floor plan documenting the location of submetering equipment in the LEED project.

Files:

LEASE

Select one of the following:

- ☐ **Upload L-6** is a signed lease associated with the LEED project documenting the energy cost agreement. The relevant passages are highlighted.

Files:

- OR ☐ **Upload EAc3-2.** Provide a credit-specific copy of the lease associated with the LEED project documenting the energy cost agreement. Highlight all relevant passages.

Files:

Relevant page/passage number(s):

CASE 2: PROJECT IS 75% OR MORE OF TOTAL BUILDING AREA

Table EAc3-2. Submetered Systems

	Continuous Metering Equipment Installed	Not Applicable to Project Space
Lighting systems and controls	<input type="radio"/>	<input type="radio"/>
Constant and variable motor loads	<input type="radio"/>	<input type="radio"/>
Variable frequency drive (VFD) operation	<input type="radio"/>	<input type="radio"/>
Chiller efficiency at variable loads (kW/ton)	<input type="radio"/>	<input type="radio"/>
Cooling load	<input type="radio"/>	<input type="radio"/>
Air and water economizer and heat recovery cycles	<input type="radio"/>	<input type="radio"/>
Air distribution static pressures and ventilation volumes	<input type="radio"/>	<input type="radio"/>
Boiler efficiencies	<input type="radio"/>	<input type="radio"/>
Building-related process energy systems and equipment	<input type="radio"/>	<input type="radio"/>
Indoor water riser and outdoor irrigation systems	<input type="radio"/>	<input type="radio"/>

Upload EAc3-3. Provide the Measurement and Verification Plan consistent with the 2001 International Performance Measurement & Verification Protocol (IPMVP) Volume I: Concepts and Options for Determining Energy and Water Savings option selected.

Files:

Select one of the following:

- ☐ The M&V Plan is consistent with IPMVP Option B.

- ☐ The M&V Plan is consistent with IPMVP Option C.
- ☐ The M&V Plan is consistent with IPMVP Option D.

The uploaded M&V Plan includes the following elements:

- ☐ Table or listing of the project's energy end uses.
- ☐ Indication of which the energy end uses is monitored and if the monitoring is permanent or temporary.
- ☐ Indication of the location of all monitoring devices.
- ☐ Specific information regarding the method for determining a baseline case and provides information regarding the baseline conditions established for the project.
- ☐ Specific information regarding the method / frequency for data collection, analysis, and reporting performance against the documented baseline conditions.
- ☐ Specific information regarding the corrective action strategy if measured data deviates from the anticipated performance.

ADDITIONAL DETAILS

- ☐ Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.

SPECIAL CIRCUMSTANCES

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload EAc3-SC. Provide any additional documentation that supports the claim to special circumstances. (Optional)

Files:

- ☐ The project team is using an alternative compliance approach in lieu of standard submittal paths.

ALTERNATIVE COMPLIANCE PATH

Describe the alternative compliance path used by the project team. Include justification that this path meets the credit intent and requirements. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload EAc3-ACP. Provide any additional documents that support the alternative compliance path approach. (Optional)

Files:

SUMMARY

EA Credit 3: Measurement and Verification Points Documented: