



LEED 2009 for New Construction and Major Renovation

EA CREDIT 5: 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.

Select one of the following:

- ☐ **Option 1:** The project team has developed & implemented a Measurement & Verification (M&V) plan consistent with Option D: Calibrated Simulation (Savings Estimation Method) in IPMVP Volume III: Concepts and Options for Determining Energy Savings in New Construction, April 2003.
- ☐ **Option 2:** The project team has developed & implemented a Measurement & Verification (M&V) plan consistent with Option B: Energy Conservation Measure Isolation in IPMVP Volume III: Concepts and Options for Determining Energy Savings in New Construction, April 2003.
- ☐ **Option 3:** The project team has committed to share whole-building energy and water use data through the Energy and Water Data Release Form in PI Form 1: Minimum Program Requirements.

IPMVP OPTION B

Upload EAc5-1. Provide the Measurement and Verification Plan consistent with Option B: Energy Conservation Measure Isolation in IPMVP Volume III.

Files:

The uploaded M&V Plan includes the following elements:

- ☐ Table or listing of the project's energy end uses.
- ☐ Indication of which of 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 baseline conditions established for the project.
- ☐ Specific information regarding the method/frequency for data collection and analysis against the documented baseline conditions.
- ☐ Specific information regarding the corrective action strategy if measured data deviates from the anticipated performance.
- ☐ Confirmation that the M&V period covers a minimum of one year of post-construction occupancy.

IPMVP OPTION D

Upload EAc5-2. Provide the Measurement and Verification Plan consistent with Option D: Calibrated Simulation (Estimated Savings Method) in IPMVP Volume III.

Files:

The uploaded M&V Plan includes the following elements:

- ☐ Table or listing of the project's energy end uses.
- ☐ Indication of the method used to model the baseline energy consumption by end use for the project.
- ☐ Indication of the method proposed to calibrate the energy model and identifies the party responsible for the calibration.
- ☐ Specific information regarding the baseline conditions established for the project.
- ☐ Specific information regarding the method/frequency for calibration and analysis against the documented baseline conditions .
- ☐ Specific information regarding the corrective action strategy if calibrated data deviates from the anticipated performance .
- ☐ Confirmation that the M&V period covers a minimum of one year of post-construction occupancy.

ENERGY AND WATER DATA RELEASE

This option aims to incentivize whole building data collection for LEED projects. Projects that choose to comply with EAc5 through this option are encouraged to enroll in USGBC's Building Performance Partnership (BPP).

The project team has checked MPR #6, committing to sharing whole-building energy and water use data, in PI Form 1: Minimum Program Requirements and has selected "Option 1. Energy and Water Data Release Form.

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 EAc5-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 EAc5-ACP. Provide any additional documents that support the alternative compliance path approach. (Optional)

Files:

- ☐ The project team is pursuing exemplary performance for EA Credit 5.

EXEMPLARY PERFORMANCE

The project team has checked MPR #6, committing to sharing whole-building energy and water use data, in PI Form 1: Minimum Program Requirements and has selected "Option 1. Energy and Water Data Release Form.

SUMMARY

EA Credit 5: Measurement and Verification Points Documented:

Measurement and Verification Exemplary Performance Documented:

- ☐ The project team reserves one point in the Innovation in Design credit category for exemplary performance in EA Credit 5.