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MODULE
19

Sample M&V Report

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The M&V process typically follows guidelines set by established protocols, such as the International Performance Measurement and Verification Protocol (IPMVP) or the ASHRAE Guideline 14. These protocols outline methodologies for determining energy savings and provide frameworks for reporting.

Learning Objectives

- Instrument metering and calibration
- Fieldwork: formal accreditation, safety, OSHA, and NFPA
- Data accessibility, communication, and valuation
- Reporting on Measurement and Verification (M&V) Projects
- Definitions of IPMVP Options
- The future of measurement and verification
- Sample M&V Plan
- Sample M&V Report
- ESCO's Guide to Measurement and Verification
- Summary and Resources



INTRODUCTION

- Measurement and Verification (M&V) is a systematic process used to assess the performance of energy efficiency projects and resource-saving initiatives.
- The objective is to provide credible evidence of energy savings or resource conservation as a result of implemented measures.
- The M&V process typically follows guidelines set by established protocols, such as the International Performance Measurement and Verification Protocol (IPMVP) or the ASHRAE Guideline 14.
- M&V is a systematic process for quantifying actual savings or improvements from implemented measures.
- It ensures accountability and transparency in energy efficiency projects.
- An M&V report serves as a foundational document for stakeholders, including project owners, investors, regulatory bodies, and the public.

KEY COMPONENTS OF AN M&V REPORT INCLUDE:

- Executive summary: A concise overview of the report, summarizing key findings, methodologies, and conclusions.
- Project description: Outlines the background of the project, objectives, scope, and implementation details.
- M&V objectives and scope: Define the objectives of the M&V process and the scope of the evaluation.
- Methodology: Details the selection of measurement tools, data collection techniques, and analysis procedures.
- Results: Summarize the findings of the M&V activities, including verified energy savings and performance improvements.
- Discussion: Provides an interpretative analysis of the results, discussing implications, potential discrepancies, and potential influences.
- Recommendations: Offer actionable insights based on the findings.
- Conclusion: Reinforces the significance of the M&V findings and their relevance to stakeholders.



STRUCTURE OF AN M&V REPORT

- **Executive Summary:** Provides a concise overview of the M&V report, summarizing main findings, methodologies used, and the overall impact of the project.
- **Project Description:** Details the project background, objectives, scope, and specific energy efficiency measures implemented.
- **M&V Methodology:** Describes the approach used to quantify energy savings, referencing the specific protocols followed.
- **Baseline Data:** Presents baseline energy consumption data, providing a clear picture of the energy usage before the implementation of energy-saving measures.



STRUCTURE OF AN M&V REPORT +



- **Post-Implementation Data:** Includes energy consumption measurements taken after the installation of energy efficiency measures.
- **Savings Calculation:** Presents the calculations used to determine energy savings, typically including formulas, detailed calculations, and references to the data used.
- **Results and Conclusions:** Synthesizes the findings, discussing the implications of the results for the stakeholders.
- **Appendices:** Provide additional information, such as raw data, detailed calculations, equipment specifications, and any relevant documentation that supports the M&V findings.



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THANK YOU

