



The Solutions Network

Rochester, New York

Meeting the M&V Needs of the Federal Government Customer

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FEMP M&V Tools and Resources

1. Introduction to M&V for Super ESPC Projects
2. M&V CD (FEMP and IPMVP documents)
3. Measurement and Verification Documents Website
4. FEMP Guide 2.2 and FEMP Option A Guide
5. M&V Resources and Training Opportunities
6. Responsibility Matrix
 - Explains the key parameters that affect energy savings, and provides a framework for assigning responsibilities to either agencies or ESCOs
 - Fosters discussion of which party is responsible for which parameter
 - Now part of DOE contract

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FEMP M&V Tools and Resources, cont.

7. M&V Planning Tool
 - Overview of process for selecting M&V approach
8. M&V Review Checklist(s)
9. M&V Plan Outline
10. Post-Installation M&V Report Outline
11. Annual Report Outline
 - Standard format for verification of savings guarantees and verification of O&M, which can affect savings persistence
12. Retro-Commissioning with ESPC
 - Intro Guide and Example Scope of Work



Measurement & Verification Documents

See printout of website (<http://ateam.lbl.gov/mv/>) & CD

- ❖ Key M&V Documents

- M&V guidelines, training curriculum, finished WG products

- ❖ Draft M&V Documents from Working Groups

- Draft products

- ❖ Background Documents

- Related items on topics such as commissioning, baselines, stipulations

- ❖ Links

- FEMP Super ESPC home page, Defense Energy Support Center, Dept. of Navy Performance Contracting, and Air Force (AFCESA)



The Federal M&V Team

A Proactive QA and Improvement Team

- Supports Federal ESPC Quality Assurance and Improvement effort
- Includes Agencies with major ESPC procurements
- Includes project facilitators and ESCO representatives
- Working Groups established to tackle specific issues and develop tools
- M&V Summits held to improve M&V across the entire federal sector

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Team Objectives

- ❖ Organize and coordinate efforts to improve and standardize M&V across the federal sector
- ❖ Collaboratively engage federal agencies, project facilitators, ESCOs, and experts
- ❖ Lead role in the development of standard M&V Tools
- ❖ Support and supplement standard protocols (IPMVP, FEMP M&V Guide)
- ❖ Advance the state of the art in M&V



Working Groups Have Completed Deliverables

- ❖ M&V Planning
 - *M&V Planning Tool*
- ❖ M&V Training
 - *M&V course*
- ❖ Retro-Commissioning
 - *Introduction and example SOW*
- ❖ Plan and Reporting
 - *M&V plan, Annual Report, and Post-installation Report Outlines*
- ❖ Project Documentation
 - *Draft project Documentation Structure*

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Active Working Groups:

- ❖ Commissioning
- ❖ M&V Plan & Reporting Integration
- ❖ Advanced Metering
- ❖ O&M Reporting
- ❖ Performance Period Administration

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