The home of the **IPMVP®**

A 20-year-old **non-profit** corporation

Led by **volunteers** around the world

**VISION**
Create a world that has confidence in energy efficiency as a reliable and sustainable energy resource.

**MISSION**
Ensure that the savings and impact of energy efficiency and sustainability projects are determined through appropriate measurement and verification.
EXISTING IPMVP PROTOCOLS
- IPMVP – Core Concepts 2022
- IPMVP – Generally Accepted Principles of M&V
- IPMVP – Non-Routine Events and Adjustments
- IPMVP – Uncertainty Assessment (in revision)
- IPMVP – Renewables (in revision)

IN PREPARATION
- IPMVP – Energy Performance Contract
- IPMVP – Evaluation Measurement & Verification
- IPMVP – Water Applications

IN EARLY DEVELOPMENT / DISCUSSION
- IPMVP – Demand Response
- IPMVP – Calibrated Simulation / Option D

EE FINANCING PROTOCOL
<table>
<thead>
<tr>
<th>M&amp;V General &amp; Intro</th>
<th>Certification Training</th>
<th>ISO and IPMVP</th>
<th>Advanced M&amp;V Courses</th>
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<tbody>
<tr>
<td>(L1) M&amp;V Awareness Webinar(s) (1 hour)</td>
<td>(L3) M&amp;V Fundamentals and IPMVP (2.5 days) + PMVA certification exam</td>
<td>ISO 50006 and the IPMVP (1 day)</td>
<td>Advanced Option D for M&amp;V Practitioners (3 days)</td>
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<tr>
<td>(L2) Introduction to M&amp;V (1/2 – 1 day workshop)</td>
<td>M&amp;V Planning in Practice (2 days) + PMVE certification exam</td>
<td>ISO 50015 and the IPMVP (1 day)</td>
<td>Advanced Statistics / Regression (LINE) (3 sessions of 2 hours + homework)</td>
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<tr>
<td>Introduction to M&amp;V Statistics (Self-taught on line 2-3 hours)</td>
<td>Investment Grade Audit (3 days) + certification exam</td>
<td>ISO 50047 and the IPMVP (1 day)</td>
<td>Autocorrelation Functions (4 sessions of 2 hours each + homework)</td>
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<tr>
<td>Introduction to Option D for Buildings Owners (1 day)</td>
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<td></td>
<td>M&amp;V and Metering (Duration TBD)</td>
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More than 60 approved instructors around the world

Deployment with a global network of training partners

15,000 trainees in the past 15 years in 60 countries

Energy Efficiency Financing (2 days + exam)
EVO’S M&V CERTIFICATION PROGRAMS

**PMVA™**

PERFORMANCE MEASUREMENT AND VERIFICATION ANALYST

- Establishes the primary standard for individuals applying M&V concepts to energy efficiency projects.
- PMVAs typically work in an analyst role for ESCOs, public administration, utilities, and financial institutions.
- They have demonstrated M&V capabilities, including a good understanding of applying the IPMVP to determine savings.
- PMVAs could be building technologists, HVAC specialists, engineers, architects, economists, financial analysts, etc.
- Certification and re-certification criterion are based exclusively on M&V professional activities. (See the full program description for additional information).

**PMVE™**

PERFORMANCE MEASUREMENT AND VERIFICATION EXPERT

- Establishes the primary standard for individuals engaged in preparing or analyzing M&V Plans.
- PMVEs typically work as M&V experts and design, elaborate, and implement M&V plans for comprehensive and complex energy efficiency projects.
- PMVEs also work as consultants and project facilitators for facility managers and building owners.
- PMVEs work as senior M&V analysts for public administration, utilities, and financial institutions.
- PMVEs typically have advanced applied expertise in various aspects of M&V and are capable of preparing/challenging M&V plans and reports.
- Most PMVEs will hold a technical degree and have a solid understanding of various energy efficiency measures.
- Certification requires holding a PMVA or significant professional experience in the preparation of M&V plans.
- Re-certification criterion are based exclusively on M&V professional activities, particularly the preparation or review of M&V plans. (See the full program description for additional information).
EVO’S PRODUCT AND TECHNICAL WORKING GROUP (PTWG)

GENERAL RESPONSIBILITIES
- Identify new products, certifications and training to address gaps from the Outreach and Market Development Working Group (OMDWG), committees & market
- Create criteria/processes for new products, certification and training development

TRAINING RESPONSIBILITIES
- Approve Program Purpose & Content
- Approve Instructor Qualification, Mentoring and Certification Criteria
- Approve Training Partners

CERTIFICATION RESPONSIBILITIES
- Approve Required Competencies
- Approve Exam Content/Scoring Criteria
- Approve Certifying Bodies

EVO PRODUCT RESPONSIBILITIES
(Protocol and Technical Documents)
- Approve New EVO Products/Guidelines

Individual Committee/WG Activities:
- Identify/recommend new products
- Develop/update new/existing products, guidelines and other EVO materials
- Develop IEEFP country annexes (translations)

TRAINING COMMITTEE
- Provides standard processes for mentoring of training programs, and for approval of training material from an educational perspective
- Run webinars and other educational activities for EVO subscribers
- Receives reports from the sub-committees

M&V Fundamentals Committee
- Prepare/Recommend Certification Materials
- Prepare/Update Exam & Scoring Scheme
- Manage Exam Process & Certifications
- Recommend Certifying Bodies

PMVA Committee
PMVE Committee
CESV Committee

Individual Committee Activities:
- Develop/update training materials
- Manage instructor mentoring & approval
- Identify improvements to training material
- Recommend training partners

TC-IPMVP Working Group
- Identify/recommend new products
- Develop/update new/existing products, guidelines and other EVO materials
- Develop IEEFP country annexes (translations)

EVO’S M&V SUPPORT INFRASTRUCTURE

PMVE Committee
- PMVE Committee
- CESV Committee