

Measurement and Verification (M&V) Plan Validation Services



For Energy Efficiency Projects

Why Quantify Energy Savings?

- › To provide convincing energy-savings information required for receiving eligible financial incentives
- › To maintain or continuously improve EE projects' performance
- › To persuade top executives to invest in EE projects
- › To validate the level of performance claimed by equipment suppliers or energy services suppliers (ESCOs)
- › To support energy management activities



Why an M&V Plan?

- › Because quantifying energy savings is not as simple or straightforward as comparing utility bills for the periods before and after implementing EE measures.
- › Because throughout an EE project, a facility's characteristics, modes of operation and production processes are prone to change. Should any such changes occur, they must be taken into account so as to make proper adjustments to the way the actual savings are quantified.
- › Because the money, time and manpower invested before implementing the project, to decide on how to properly calculate and report the savings, will prove to be more worthwhile and productive than being entangled in endless post-implementation discussions on issues that should have been addressed early on before the project started.

Why Validate an M&V Plan?

- › Past experience points to the following as the biggest challenges associated with savings quantification:
 - A flawed baseline;
 - The lack of a proper mechanism for tracking baseline evolution; and
 - The lack of a well-structured evaluation process.
- › The lack of a robust, well-designed M&V plan is the most common cause of disagreement and dispute regarding EE projects among stakeholders (project managers, service providers, financing organizations, and executives).



M&V Plan Validation: Sure Value for Every Stakeholder

As highlighted in the following table, every stakeholder can gain benefits from a properly conducted M&V plan review and approval process.

EE project beneficiaries	Enhanced confidence in forecast savings
Energy managers	Better buy-in among top executives
EE project funding organizations and banks	Risk mitigation
Service providers (ESCOs, manufacturers, installers, etc.)	A winning edge over the competition; higher success and satisfaction rates



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In its capacity of the Efficiency Valuation Organization (EVO)'s exclusively authorized Certified Measurement and Verification Professional (CMVP) program training partner in Canada, **the Canadian Institute for Energy Training (CIET)** is pleased to offer our valued clients services of third-party M&V plan validation.

Services Overview

1. Review of the M&V plan

Our experts will review the M&V plan and baseline data provided by the client/service provider.

2. Validation of its adherence to any referenced M&V protocol

CIET's experts will validate whether the M&V plan adheres to the specific requirements of the M&V protocol referenced in it (ASHRAE, ISO, IPMVP, SEP, etc.).

3. Delivery of a detailed adherence report and an approval letter

Upon completion of the review and validation process, CIET will provide the client with: 1) a detailed adherence report discussing the M&V plan's strengths and weaknesses; and 2) an approval letter announcing one of the following three possible conclusions:

- (a) The M&V plan fully adheres to the referenced protocol;
- (b) The M&V plan partially adheres to the referenced protocol; and can be amended to gain full adherence approval; or
- (c) The M&V plan does not adhere to the referenced protocol.



Who reviews and assesses your M&V plan?

CIET relies on the following highly competent and experienced M&V experts:

- › Senior M&V specialists
- › Five EVO-approved Canadian CMVP trainers (including advanced M&V trainers)
- › One EVO Training Committee member

This team of experts will provide guidance and approval based on international M&V best practices.

Fee

For each M&V plan covering a single energy efficiency project, CIET charges the following fee for its review and validation:

- › **\$3,750 per M&V plan**

To make your M&V plan validation request, contact us at

info@cietcanada.com or
1-800 461-7618

