

Measurement & Verification Services

TEAM provides a comprehensive Measurement and Verification (M&V) Service for energy efficiency and renewable energy schemes. This service is ideal for anyone participating in an Energy Performance Contract (EPC) requiring independent verification of system performance. TEAM can verify overall savings and report against contractual targets for individual Energy Conservation Measures (ECMs), where applicable.

Why use M&V?

M&V can be applied to both energy demand reduction schemes, and renewable energy generation. Both are subject to variations in performance, and can deteriorate over time or suffer sudden unexpected failures – both of which can go un-noticed in the general variability and ‘noise’ of energy use, or due to the ‘fit-and-forget’ nature of heating and cooling plants and renewables.

These are expensive investments and optimum performance is essential, if the predicted returns are to be realised.

IPMVP certified

TEAM’s Certified Measurement and Verification Professional (CMVP) will lead and verify all of TEAM’s M&V work.

The CMVP accreditation enables TEAM to offer measurement and verification services to International Performance Measurement and Verification Protocol (IPMVP) standards. Other team members are brought in, as required, to examine ECMs such as Combined Heat and Power (CHP), Ground Source Heat Pumps (GSHP) and Anaerobic Digestion, as well as conventional lighting, boilers, chillers and Air Handling Unit (AHU) replacement.

The CMVP is an accreditation from EVO (the Efficiency Valuation Organisation) and the AEE (Association of Energy Engineers) awarded to qualified professionals in the field of Measurement and Verification within the energy industry. Its aim is to acknowledge good practice and raise overall professional standards within the M&V field.



Who can benefit from M&V?

An M&V service is typically used by a building owner/occupier, Energy Services/Savings Company (ESCO), or an FM contractor. A building owner/occupier may retain an independent CMVP to review the M&V plans at DTA and IGP stages as well as to review the on-going M&V provision over the life of the contract.

ESCOs and FM contractors may want to outsource their M&V provision to a third-party independent specialist. TEAM’s service is fully flexible and can accommodate any of these requirements.

The Service

TEAM's M&V services can be adapted to suit your specific requirements.

We can offer a full end-to-end service from technical feasibility checks through to on-going performance analysis. The service typically comprises:

1. A technical review of the proposed savings (carbon, energy, cost) of an energy savings measure, project or programme of ECMs
2. The review, and accompanying report, of the M&V plan for the DTA, as well as for the IGP, including M&V methodology, baseline calculations, variables and other factors and acceptable levels of accuracy
3. A review of the required level of metering depending on the required level of accuracy
4. A review of the M&V report at Practical Completion (PC)
5. Review of the Year 1 and subsequent quarterly/yearly reports for the life of the contract, reviewing baseline adjustments and querying any shortfall in expected performance.



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Key Benefits

- Independent verification of energy efficiency and renewable energy projects
- Quality assured through IPMVP certification
- M&V helps identify where EPCs or individual ECMs are not achieving the expected performance targets
- M&V over the life of the contract will highlight



Why Choose TEAM?

- Certified Measurement and Verification Professional (CMVP)
- Independent third party assessment of M&V plans at Desk Top Assessment (DTA) and Investment Grade Proposal (IGP) stage, as well as on-going M&V reporting post-completion
- Can provide an end-to-end service from technical feasibility and contract checks through to on-going detailed performance analysis
- Long and proven track record in energy data collection and analysis
- Strong expertise in renewable energy systems and heat generation