

# Measurement and verification (M&V) of utility savings to IPMVP & ISO50015



## Do you need to confirm energy project savings performance?

The problem with determining savings is the need to measure energy that was not used and cannot be metered directly. The International Performance Measurement and Verification Protocol (IPMVP®) and ISO 50015 provide best practice methodologies for setting out how utility project savings will be measured, calculated and reported. They support renewables projects where revenues not energy savings need to be determined.

If you are planning investment in utility efficiency or generation then you would benefit from a structured M&V approach.

**“M&V adds value by increasing the credibility of energy performance and energy performance improvement results” ISO 50015:2014**

## Who uses M&V?

M&V is used across the public and private sector where transparent calculation and presentation of project outcomes is required. Using IPMVP and/or ISO50015:2014 ensures project savings are fairly, accurately and reliably reported to all relevant project parties including the utility end-user and the supplier/installer, energy services company (ESCO) or investors.

M&V is used extensively across utility projects including those let under key public sector purchasing frameworks such as RE:FIT and Essentia where the robust principles of IPMVP are used by ESCOs to confirm guaranteed savings have been delivered through an Energy Performance Contract (EPCs).

M&V can be used to determine outcomes of single technology projects such as a lighting retrofit, or complex multi-technology installations throughout a building or estate.

## Erebus Environment Ltd – the independent M&V solution

Most Certified M&V Professionals (CMVPs) are employed by ESCOs and independent expertise can be hard to find. Using our own CMVP<sup>1</sup> Erebus has a wealth of M&V experience to report project outcomes across a range of technology and building types from data centres to leisure facilities.

- Typical M&V activities we undertake include -
- ⇒ Site surveys during project concept stage
  - ⇒ Determination of measurement boundary and project metering requirements.
  - ⇒ Preparation of detailed M&V plans including analysis and agreement of baseline utility use and key project variables (e.g. weather or occupancy) that need to be accounted for.
  - ⇒ Agreement of tariff and emissions basis for determining cost and carbon savings.
  - ⇒ Collection and management of data, performance monitoring, savings calculation and periodic reporting.
  - ⇒ Analysis of performance issues and management of improvement plans.
  - ⇒ Independent review of project outcomes for ESCOs or their clients.

## For more details

on how our independent M&V service can help you contact us today on **07702 211529**.

<sup>1</sup> Colin Grenville CMVP