

# Requirements for EXEED Certification

Heading	Requirement
<b>1.0 Implementation of the M&amp;V plan</b>	<i>ISO50015 - Energy management systems — Measurement and verification of energy performance of organizations — General principles and guidance, Clause 6</i> shall be used as guidance in the implementation of Measurement and Verification plan
<b>1.1 Data-gathering</b>	The M&V practitioner shall collect and record the data according to the requirements of the Data-gathering plan developed during <i>Planning for Measurement &amp; Verification</i> .
<b>1.2 Verification of opportunities implemented</b>	<p>The M&amp;V practitioner shall verify the opportunities and actions as described in the Energy Saving Register (ESR) and M&amp;V plan have been appropriately implemented.</p> <p>The following shall be recorded, relative to ESR and M&amp;V plan.</p> <ul style="list-style-type: none"> <li>- Opportunities implemented</li> <li>- Opportunities not implemented</li> <li>- Implemented opportunities that differ from ESR and M&amp;V plan detail and reason(s)</li> </ul> <p>If an implemented opportunity differs from its description in the ESR and M&amp;V plan, the M&amp;V plan shall be adjusted and shall be documented.</p> <p><b>NOTE:</b> Elements of the M&amp;V plan that may require adjustment may include method, M&amp;V boundary selection, relevant variables and static factors.</p>
<b>1.3 Observation anticipated or unforeseen changes</b>	<p>Situations requiring non-routine adjustments to the M&amp;V plan shall be noted and recorded by the M&amp;V practitioner.</p> <p><b>NOTE:</b> Elements of the M&amp;V plan that may require adjustment include (but are not limited to) method, M&amp;V boundary selection, relevant variables and static factors.</p>
<b>1.4 M&amp;V Analysis</b>	<p>The M&amp;V analysis shall follow the scope, time periods, data frequency and method specified in the M&amp;V plan</p> <p>The baseline(s) shall be calculated according to the M&amp;V plan</p> <p>Non-routine adjustments or changes to methods used shall be recorded</p> <p>The results according to the requirements of the M&amp;V plan shall be recorded</p> <p>The M&amp;V analysis shall address the energy performance outcome of combined effect of multiple opportunities implemented in the same time period.</p> <p><b>Note:</b> This may be different to the sum of M&amp;V analysis of each opportunity individually.</p>
<b>1.5 M&amp;V reporting</b>	<p>M&amp;V shall be documented and reported at intervals as established in the M&amp;V plan</p> <p>M&amp;V report shall summarise the scope and purpose of the M&amp;V</p> <p>M&amp;V report shall specify the responsible person that performs the M&amp;V and their relationship to the organisation</p> <p>M&amp;V report shall include a clear statement regarding the accuracy or uncertainty of measurement</p> <p>M&amp;V report shall:</p> <ul style="list-style-type: none"> <li>- list implemented opportunities</li> <li>- list opportunities planned for implementation that were not implemented, specifying why they were not implemented</li> <li>- provide details of any opportunity implementation differed from the original plan</li> </ul>

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	<ul style="list-style-type: none"> <li>- identify changes that have occurred and if the change requires a non-routine adjustment(s)</li> <li>- provide energy performance or energy performance improvement results according to the requirements of the M&amp;V plan, as well as legal, regulatory, or other requirements that may be applicable</li> </ul> <p>The M&amp;V practitioner shall report any challenges experienced and how these were addressed as a part of the M&amp;V process.</p>
<b>1.6 Review the need to repeat the process</b>	<p>The EED Expert and EED Owner shall review the need to repeat all or part of the M&amp;V process based on any of several factors, such as:</p> <ul style="list-style-type: none"> <li>- Frequency as determined in the M&amp;V plan</li> <li>- Results achieved</li> <li>- Opportunities or EPIA(s) to be implemented</li> <li>- Other requirements identified in the M&amp;V plan</li> <li>- Effects of issues or challenges encountered</li> </ul>
<b>2.0 Uncertainty</b>	<p>Sources of uncertainty shall be identified where appropriate and should be quantified to the extent practicable and useful to the M&amp;V objective.</p> <p><b>Note:</b> Additional guidance on sources of uncertainty is provided by <i>ISO50015 - Energy management systems — Measurement and verification of energy performance of organizations — General principles and guidance, Clause 7</i>.</p>
<b>3.0 Measurement and Verification documentation</b>	<p>Measurement and Verification documentation shall include:</p> <ul style="list-style-type: none"> <li>- M&amp;V Plan</li> <li>- M&amp;V Report</li> <li>- Procedures necessary to reproduce the M&amp;V results as specified in the M&amp;V plan.</li> </ul> <p>Measurement and Verification documentation shall be subject to change control processes.</p>
<b>4.0 Achieving and Maintaining EXEED Verified certification</b>	<p>An energy baseline shall be established using the information from Energy Measurement Plan (c.f. EXEED Designed) and data compiled from Measurement and Verification plan.</p> <p>Energy performance shall be measured and verified annually using appropriate energy performance indicators.</p> <p>The Energy Saving Register shall be a revision controlled document and reviewed on an annual basis by the EED Owner.</p> <p>EXEED Verified can be re-certified every three years and shall include a review of an Energy Performance Statement.</p>