

Requirements for EXEED Certification

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

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| | <ul style="list-style-type: none"> - identify changes that have occurred and if the change requires a non-routine adjustment(s) - provide energy performance or energy performance improvement results according to the requirements of the M&V plan, as well as legal, regulatory, or other requirements that may be applicable <p>The M&V practitioner shall report any challenges experienced and how these were addressed as a part of the M&V process.</p> |
| 1.6 Review the need to repeat the process | <p>The EED Expert and EED Owner shall review the need to repeat all or part of the M&V process based on any of several factors, such as:</p> <ul style="list-style-type: none"> - Frequency as determined in the M&V plan - Results achieved - Opportunities or EPIA(s) to be implemented - Other requirements identified in the M&V plan - Effects of issues or challenges encountered |
| 2.0 Uncertainty | <p>Sources of uncertainty shall be identified where appropriate and should be quantified to the extent practicable and useful to the M&V objective.</p> <p>Note: 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> |
| 3.0 Measurement and Verification documentation | <p>Measurement and Verification documentation shall include:</p> <ul style="list-style-type: none"> - M&V Plan - M&V Report - Procedures necessary to reproduce the M&V results as specified in the M&V plan. <p>Measurement and Verification documentation shall be subject to change control processes.</p> |
| 4.0 Achieving and Maintaining EXEED Verified certification | <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> |