

RE-R2: Energy Monitoring & Reporting

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| Intent | To ensure the provision of metering facilities to monitor the performance of infrastructure systems, enabling future improvements and understanding of energy use within the public realm. |
| Credit Requirements | <p>GENERAL</p> <p>Demonstrate that the total site energy consumption is metered and that easily accessible, clearly labelled energy sub-meters are provided which are capable of monitoring the energy consumption of, at a minimum, the following uses (where present):</p> <ul style="list-style-type: none"> ▪ External lighting; ▪ Irrigation; ▪ Buildings, or groups of buildings; ▪ On-site energy generating systems; and ▪ Final electrical distribution boards rated over 10kW. <p>ADDITIONAL REQUIREMENT/CLARIFICATIONS</p> <p>Projects with a total connected load of less than 25kW only require a single energy sub-meter.</p> <p>Buildings that are provided with their own utility connection are excluded.</p> <p>Individual Streetscapes</p> <p>This credit does not apply.</p> |
| Credit Submission: Design Rating | <ul style="list-style-type: none"> <input type="checkbox"/> Narrative describing the project's energy monitoring strategy relating to all major uses; <input type="checkbox"/> Design drawings identifying the location of all meters and their connection to a central monitoring system; <input type="checkbox"/> Schematics illustrating the metering strategy, confirming that the required level of metering will be achieved; and <input type="checkbox"/> Extracts from specifications clearly indicating the type and extent of all metering and monitoring equipment. |
| Credit Submission: Construction Rating | <ul style="list-style-type: none"> <input type="checkbox"/> Updated narrative describing the project's energy monitoring strategy relating to all major uses; <input type="checkbox"/> As-built drawings identifying the location of all meters and central monitoring equipment; <input type="checkbox"/> Manufacturer's data clearly indicating the type and extent of all metering, and central monitoring equipment; <input type="checkbox"/> Photographs confirming installation of specified meters and monitoring capabilities of the central monitoring system; and <input type="checkbox"/> Written commitment from the site owner to submit all energy monitoring data to Estidama (if requested). |
| Calculations and Methodology | <p>All sub-meters must have a pulsed output and be connected to a central monitoring system so that information on the project's energy consumption can be recorded. The monitoring system shall have, at a minimum, the following capability:</p> <ul style="list-style-type: none"> ▪ Provide hourly, daily, weekly, monthly and annual energy totals for each use; ▪ Compare consumption to previous days, weeks, months and years for trend analysis; ▪ Determine 'out-of-range' values and alert facility operator to unusually high |