# metering and monitoring

### Credit 5

### Design Review Submission As Built Submission

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| Total Points available: | 1 | Points claimed: | [#] |

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|  | Criteria | Description | Points Available | Points Claimed |
| **5.1** | **Metering** | Accessible metering is provided to monitor building energy and water consumption, including all energy and water sources and all common and major uses. | Minimum Requirement | [Y/N] |
| **5.2** | **Monitoring System** | An automatic monitoring system is provided, capable of capturing and processing the data produced by the installed energy and water meters, and accurately and clearly presenting data consumption trends. | 1 |  |

## Project-specific technical questions (formerly tcs and cirs)

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| --- | --- |
| There are no project-specific Technical Questions for this credit. |  |
| There are project-specific Technical Questions for this credit and all responses received from the NZGBC are attached. |  |

5.1 Metering

The project has provided accessible metering to all energy and water sources coming into the project, and all energy and water common uses and major uses within the project as follows:

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| --- | --- |
| 5.1.1 Metering distinct uses or floors All energy and water major uses have been metered (by area or function). |  |
| 5.1.2 Water and energy meters accuracy and accessibility All utility and non-utility meters meet recognised metering guidelines. Meters are located in an area that allows regular monitoring and maintenance by facilities managers and other facilities management personnel. |  |
| 5.1.3 Energy Metering Integrity All meters and metering systems are commissioned and validated in accordance with the most current protocols, and are capable of producing alerts if any inaccuracies in the meter network are found. |  |
| 5.1.4 Small fitouts The fitout has a Gross Floor Area smaller than 500m2 and no specialist equipment is present in the fitout. A single meter for energy and a single meter for water is provided and is accessible to the building manager. |  |

Identify where this information can be found within the supporting documentation provided.

|  |  |
| --- | --- |
| **Supporting Documentation** (Name / title / description of document) | **Reference** (Page no. or section) |
| [####] | [####] |
| [####] | [####] |

5.2 Monitoring system

|  |  |
| --- | --- |
| 5.2.1 Monitoring strategy A monitoring strategy has been developed in accordance with a recognised standard and provides appropriate information to the building manager. This monitoring strategy complies with the Compliance Requirements under 5.2.1. |  |

Provide a description of the monitoring strategy developed and details of the metering schedule, location and type of meter and the estimated loads for water and energy.

|  |  |
| --- | --- |
| 5.2.2 Automatic monitoring system The project includes an automated monitoring system which captures data from all energy and water meters within the project and provides accurate and easily read reports on consumption trends in accordance with the Compliance Requirements under 5.2.2. |  |

Provide a description of the automatic monitoring system capabilities.

Identify where this information can be found within the supporting documentation provided.

|  |  |
| --- | --- |
| **Supporting Documentation** (Name / title / description of document) | **Reference** (Page no. or section) |
| [####] | [####] |
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## DISCUSSION

Outline any issues you would like to highlight and clarify with the Certified Assessor(s).

## DECLARATION

I confirm that the information provided in this document is truthful and accurate at the time of completion.

Provide author details, including name, position and email address:

[Date]

––– **Report end** –––