

Innovation

Short Report



INN-3 ENVIRONMENTAL DESIGN INITIATIVES

*Please ensure all prompts shown in **Blue text** have been responded to.*

Green Star – Interiors Built 2009

Project Name: NZGBC Office Fitout

Points available: 5

Points claimed: 1

1. Environmental design initiatives that provide a significant quantified environmental benefit otherwise not awarded points under any other Credits within the Green Star NZ Tool under which it is registered.

1.1 Initiative 1: *Implementing MAN-B Learning Resources into the Office Interior fit-out.*

The project has demonstrated a design feature that addresses a valid environmental concern outside the scope of the Green Star rating tool.

1.2 What is the significant quantified environmental benefit of the innovation?

The NZGBC Office Interior fitout includes a variety of learning resources, in compliance with the MAN-B Learning Resources credit in the Education Tool. Learning Resources are not recognised within the Office Interiors Tool, therefore the Project Team are of the opinion that an Innovation Point under INN-03 should be awarded.

These learning resources provide significant environmental benefit by enhancing the knowledge of all NZGBC staff and visitors using the Office fitout space of key environmental features, which in turn provide significant environmental benefit themselves. These learning resources are designed to provide the opportunity to all staff and visitors to further their understanding of sustainable principles and environmental benefits reinforcing the very principles that the New Zealand Green Building Council is founded upon.

Examples of the Learning Resources that are incorporated into the fitout and displayed are described below:

An Energy Monitoring System

An energy monitoring system provided by Schneider is installed in the reception area which will display to all NZGBC staff and visitors the energy consumption for each of the major energy uses separately (lighting, plug loads and supplementary HVAC). By monitoring the energy consumption of these

different end uses, behavioural changes can be targeted and their impact monitored e.g. turning off computers at the end of the day to reduce the plug load energy. The system will allow NZGBC staff to compare their energy use year on year and be able to see which behavioural education programmes have worked.

Explanation Cards

A series of 'explanation cards' are displayed around the whole fitout to highlight particular environmental features of the office fitout and their benefits to staff and visitors. The final explanation cards are included in the submission, and some examples are noted below for further information.

ENERGY (ENE-1/2 + ENE-5)

- An Explanation Card displayed in the reception area detailing that the lighting has been designed with increased control and flexibility. Lights are grouped into individually switched, easily identifiable zones and the switches are accessible for all tenancy occupants. In addition, energy is saved by installing presence detectors throughout all frequently and infrequently used areas.

MATERIALS (MAT-3 + MAT-A)

- An Explanation Card is displayed outside the Meeting Room for all NZGBC staff and visitors to view detailing information regarding the use of low VOC and ECNZ certified paint on the Meeting Room doors and in the quiet work areas designed for both staff and member use. This will enhance the knowledge of users about the choice of environmentally friendly paint.
- Several Explanation Cards are displayed around the office detailing the environmental benefits of various furniture provided, including all chairs, and workstations. For example, the explanation cards enhance users knowledge of the furniture selected, in that all workstations, desk drawers and chairs are reused from the previous office fitout, and the chairs also hold GreenTag certification.

WATER (WAT-A)

- An Explanation Card is displayed in the open plan kitchen, which is accessible to all NZGBC Staff and visible to all visitors, to enhance their knowledge of the environmental features incorporated into the office fitout that contribute to the reduction of water consumption. For example, three features within the fitout include the Bosch Dishwasher certified with a 4.5 Star WELS rating, and the Billi Quadra Plus 9, which is a low energy consuming dispenser providing instant boiling and chilled drinking water as well as a hot water supply to a separate mixer eliminating the need for a separate hot water supply.

1.3 Does the innovation have significant environmental benefits that are not addressed by any existing credits within the Green Star NZ Tool that the project is registered under?

The MAN-B learning resources credit is not available within the Interiors Tool. It is intended that the NZGBC office create a hub for learning for all staff and visitors, and the incorporation of dedicated learning Resources to better understand important sustainable environmental features, and demonstrate how some such features can successfully be incorporated into fitouts clearly demonstrates this, which should be rewarded under Green Star.

1.4 Supporting Documentation

All documentation in support of these claims, (i) Describing the innovative strategy or technology and (ii) Substantiating the statements made above and (iv) Demonstrating that the innovation is included in the project, has been provided below.

The supporting documentation provided are:

- Schneider metering.pdf (not available within online submission documents)
- Schneider proof of purchase 1.pdf (not available within online submission documents)
- Schneider proof of purchase 2.pdf (not available within online submission documents)
- Small Building System – SmartStruxure Lite Brochure.pdf (not available within online submission documents)
- NZGBC Small Building System Installation.pdf (not available within online submission documents)
- 15 x Explanation Cards

Therefore, as demonstrated in section 1, this project is eligible to achieve 1 point(s) for pioneering initiatives in sustainable design, process or advocacy.

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