

# Summary of Changes

## Green Star NZ - Office Interiors 2009

July 2009



The NZGBC is committed to ensuring ease of use and transparency of all its Green Star NZ tools. With the release of the Green Star NZ - Office Interiors 2009 tool, the following 'traffic light system' has been developed to outline how each Credit has changed since the PILOT version. This indicates whether it is now easier or harder to achieve the Credit, or similar to the requirements in the PILOT tool. Improving standards across industry has had an impact on Credit compliance, and wherever possible the text and format of each Credit has been clarified, simplified and refined.

### Overall Changes




A broad range of modifications and improvements have been made to the overall tool as follows:

- Wherever possible the text and format of each Credit has been clarified, simplified and streamlined. Submission Checklists have been introduced within the Technical Manual for each Credit to simplify the collection of documentation for submission.
- A table at the top of each Credit sets out clearly the number of points, any related Credits, and the area of the building that the Credit applies to (Assessable Area). Credits have been renumbered so that they are the same across all Green Star NZ tools; old numbers have been indicated in italics below the new number for each Credit.
- Detailed guidance on the eligibility criteria has been provided in the introduction to the Technical Manual.
- The range of eco-labels recognised within Green Star NZ will be expanded across all 2009 tools. Please refer to [www.nzgbc.org.nz](http://www.nzgbc.org.nz) for further details.



### Credit Changes

A traffic light system has been used to provide an indication of the change to each Credit at a glance. In addition to this there is a summary of the key change to the credit, and a more detailed explanation of the modifications.

















The meaning of each 'traffic light' is set out to the right:















	Credit more attainable through reduced benchmark, or introduction of alternative methods of compliance.
	Credit not significantly changed from PILOT version. Overall impact deemed to be neutral.
	Significant change to the Credit, in line with feedback and/or other 2009 tools.









### MANAGEMENT

<b>MAN-1</b>	<b>Green Star NZ Accredited Professional</b>		Wording change in Credit Criteria for consistency: 'design and construction team' changed to 'project team'.
<b>MAN-2</b>	<b>Commissioning Clauses</b>		No change to Credit.

MAN-3	Building Tuning (Tenancy Fitout Tuning)	●	Credit renamed, no change to Credit Criteria.
MAN-4	Independent Commissioning Agent	—	Not applicable to this tool.
MAN-5	Waste Management	●	Waste Management Plan no longer required so as to reduce compliance requirements.
MAN-6	Users' Guide	●	No change to Credit.
MAN-7	Environmental Management	●	Point allocation has been changed so that one point is awarded for NSW standard or Enviro-Mark NZ Gold standard and two points for ISO14001 to align Office Interiors tool with other Green Star tools.
MAN-A	Environmental Management Operations	●	Wording and formatting changed to better reflect industry practice.
MAN-E (ECO-A)	Green Star NZ Certified Rating	●	Credit moved from Land Use & Ecology Category. Base building can be any Green Star Certified building rather than exclusively an office building as stated in ECO- A.
<b>INDOOR ENVIRONMENT QUALITY</b>			
IEQ-1	Base Ventilation Rates	●	A requirement of at least a 50% improvement on NZBC requirements was dropped as the expectation of the point was to encourage good base building selection.
IEQ-2	Ventilation Rates	●	The Credit now requires the use of work settings to determine the occupancy of a space.
IEQ-3	Indoor Air Quality	●	The 'ceiling tiles' subgroup was moved from 'furniture and fittings', and combined with 'engineered wood productstiles was created. The wording concerning VOCs was clarified and added to the Engineered Wood Products/Ceiling Tiles subgroup. The points available for engineered wood products that meet EO formaldehyde emissions was changed to two points.
IEQ-4	Air Change Effectiveness	—	Not applicable to this tool.
IEQ-5	Exhaust Riser	●	The Credit now requires that at least one printing/photocopy room be provided per floor of the tenancy that is enclosed by at least 80% wall area, rather than all printing/photocopying rooms to be enclosed by at least 80% wall area.
IEQ-6	Thermal Comfort	—	Not applicable to this tool.
IEQ-7	Thermal Comfort Control	●	No change to Credit.
IEQ-8	Daylight	●	No change to the Credit Criteria. However, a deemed to comply approach has been added as an alternative to daylight modelling.
IEQ-9	Daylight Glare Control	●	No change to Credit.
IEQ-10	External Views	●	No change to Credit.
IEQ-11	Electric Lighting Levels	●	The recent changes to the Core Credit (in Office 2009), which was adapted in response to industry feedback, have been adopted in the Interiors tool.
IEQ-12	High Frequency Ballasts	●	No change to Credit.

IEQ-13	Internal Noise Levels		No change to Credit.
IEQ-A	Hazardous Materials		No change to Credit.
IEQ-C (IEQ-G)	Indoor Plants		The benchmarks for this Credit have been reduced due to foreseen difficulty adapting and complying with the original benchmarks.  Wording and formatting changed to better reflect industry practice as well as guidance on demonstrating compliance with alternate sized plant pots.
<b>ENERGY</b>			
ENE-1 (ENE-B)	Energy		Name changed to "ENE-1 Energy" to align with the intent of all tools.
ENE-2	Greenhouse Gas Emissions		Not applicable to this tool.
ENE-3	CO <sub>2</sub> Monitoring and Control		Not applicable to this tool.
ENE-4	Lighting		The requirements have been reduced to reflect the increased lighting requirements when partitions are included in the lighting model. 3.0 W/m <sup>2</sup> /100lux is now required for 1 point.
ENE-5	Lighting Control		No change to Credit.
ENE-6	Electrical Sub-metering		A minor wording change has been added to require a form of monitoring.
ENE-7	Peak Energy Demand Reduction		Not applicable to this tool.
ENE-A	Base Building Energy Efficiency		The credit has been reworded to award points based on base building ENE-2 scores rather than building ratings.
ENE-B (ENE-C)	Small Power Loads		The required percentage of compliance for computers has been reduced from 95% to 90% and Energy Star certification is now also required.
ENE-C (ENE-D)	Process Loads		The Credit metric has been changed from Integrated Part Load Value to Coefficient of Performance.
<b>TRANSPORT</b>			
TRA-1	Car Park Minimisation		The Credit has been amended to relate only to parking attributed to tenancies and to clarify when parking is located outside of the tenanted building. Where no parking attributed to the tenancy is provided full points are now achieved, rather than the Credit becoming not applicable.
TRA-2	Fuel Efficient Transport		Not applicable to this tool.
TRA-3	Cyclist Facilities		The Credit was clarified to provide further guidance to interior fitouts with regard to cyclist facilities.  Error relating to the NLA has been amended and the minimum benchmark reduced from a minimum of two spaces per tenancy plus one space for every 7500m <sup>2</sup> NLA to a minimum of one visitor bicycle storage space to be provided where a tenancy has ≤ 3750m <sup>2</sup> total assessable area with one additional space provided for every 7500m <sup>2</sup> of total assessable area beyond the first 3750m <sup>2</sup> . This is intended to make the target more attainable for smaller tenancies.

TRA-4	Mass Commuting Transport		No change to the Credit Criteria.
<b>WATER</b>			
WAT-1 (WAT-A)	Base Building Water Efficiency		Credit has been moved to WAT-1, projects can either complete the water calculator for the tenancy, or where a Green Star rating has achieved for the base building submit a copy of the calculator used for the base building rating.
WAT-2	Water Meters		No change to Credit.
WAT-3	Landscape Irrigation Water Efficiency	—	Not applicable to this tool.
WAT-4	Heat Rejection Water	—	Not applicable to this tool.
WAT-A (WAT-B)	Tenancy Water Efficiency		No change to Credit.
<b>MATERIALS</b>			
MAT-1	Shell and Core or Integrated Fitout		No change to Credit.
MAT-2	Building Reuse	—	Not applicable to this tool.
MAT-3	Applied Coatings		No change to Credit.
MAT-4	PVC		No change to Credit.
MAT-5	Insulation	—	Not applicable to this tool.
MAT-6	Timber		No change to Credit.
MAT-7	Concrete	—	Not applicable to this tool.
MAT-8	Steel	—	Not applicable to this tool.
MAT-9	Floor Coverings	—	Not applicable to this tool.
MAT-10 (MAT-D)	Waste Recycling		Points reduced from 2 to 1. Criteria expanded to include the provision of adequate storage space within the tenancy.
MAT-A	Furniture		<p>The Material calculators have been updated to reflect the feedback below. In summary these are.</p> <p>1) Points are now awarded equally for reuse or new. Reuse automatically gets full points whereas new products need to meet certain standards to get full points.</p> <p>2) Points can now be achieved for products whose manufacturer has ISO14001 or Enviro-Mark Gold (or above) certification.</p> <p>3) Refurbishment has been recognised with some points but to get full points all of the refurbished items must meet the same criteria as new.</p> <p>4) The Flooring Calculator does not include a refurbishment option.</p> <p>5) Achieving points for being demountable now only applies to partitions.</p>
MAT-B	Walls, Partitions and Joinery		
MAT-C	Flooring		
MAT-D (MAT-E)	Ceilings		
MAT-E	Furniture Reuse		

<b>MAT-F (ECO-B)</b>	<b>Recycling/Reuse of Computers and Monitors</b>		This Credit has been moved from the Land Use & Ecology Category.
<b>MAT-G (ECO-C)</b>	<b>Recycling/Reuse of Mercury Containing Lamps</b>		This Credit has been moved from the Land Use & Ecology Category.
<b>LAND USE &amp; ECOLOGY</b>			
<b>ECO-1</b>	<b>Ecological Value of the Site</b>	—	Not applicable to this tool.
<b>ECO-2</b>	<b>Reuse of Land</b>	—	Not applicable to this tool.
<b>ECO-3</b>	<b>Reclaimed Contaminated Land</b>	—	Not applicable to this tool.
<b>ECO-4</b>	<b>Change of Ecological Value</b>	—	Not applicable to this tool.
<b>ECO-5</b>	<b>Topsoil and Fill Removal from Site</b>	—	Not applicable to this tool.
<b>EMISSIONS</b>			
<b>EMI-1</b>	<b>Refrigerant ODP</b>		No change to Credit.
<b>EMI-2</b>	<b>Refrigerant GWP</b>	—	Not applicable to this tool.
<b>EMI-3</b>	<b>Insulant ODP</b>		This Credit Criteria was amended to include acoustic insulation.
<b>EMI-4</b>	<b>Watercourse Pollution</b>	—	Not applicable to this tool.
<b>EMI-5</b>	<b>Reduced Flow to Sewer</b>		This Credit has been included in the tool as the water flows to the municipal sewerage systems for treatment is an environmental impact of the tenancy. However the number of points have been reduced from 4 (Green Star NZ - Office tool) to 1 to reflect the more limited impact of a single tenancy compared to the entire base building.
<b>EMI-6</b>	<b>Light Pollution</b>	—	Not applicable to this tool.
<b>EMI-7</b>	<b>Purge Control</b>	—	Not applicable to this tool.
<b>EMI-8</b>	<b>Legionella</b>	—	Not applicable to this tool.
<b>INNOVATION</b>			
<b>INN - 1</b>	<b>Innovative Strategies and Technologies</b>		Reworded for clarity and inserted need for environmental benefits to be quantified to ensure that benefits are tangible.
<b>INN - 2</b>	<b>Exceeding Green Star Benchmarks</b>		The following has been added: "...and where that improvement can be demonstrated or considered to have a commensurate additional environmental benefit". This is a result of there needing to be a significant benefit beyond the benefit achieved by complying with the upper end of the existing Green Star NZ benchmark. This has now aligned with the Office 2009 Credit.  The word 'quantified' has been added to ensure that benefits are tangible.
<b>INN - 3</b>	<b>Environmental Design Initiatives</b>		The word 'quantified' has been added to ensure that benefits are tangible.