Green Star Design & As Built

Scorecard

greenstar Developed by the Green Building Council of Australia

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Green Building Council of Australia ("GBCA"). Green Star - Design & As Built evaluates sustainability outcom
single detached dwellings). It is intended for use by stakeholders including project team members as a guide
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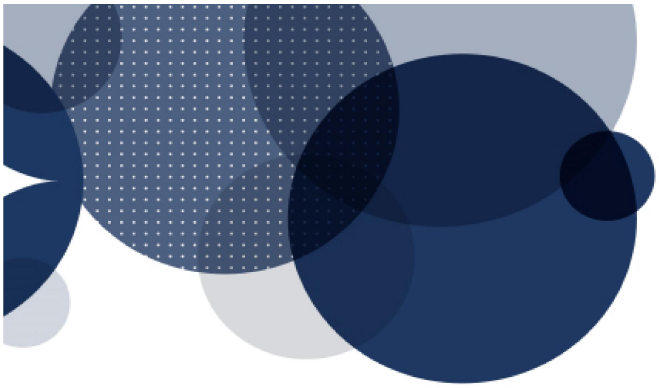

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for green and sustainable existing building operations. As with all Green Star

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s, employees and its members from any and all claims, demands and causes of
oss) that you may now or hereafter have a right to assert against such parties as

n & As Built. The GBCA offers a formal certification process for 4 Star ratings
be demonstrated to be achieved by the provision of the necessary documentary
e the user or any other party to promote the Green Star rating claimed to have

the exception of single detached dwellings) is encouraged to assess and
promote same – requires undertaking the formal certification process offered by

Change Log

Please ensure that you use the most up to date version of Green S
in your scorecard easier, clearer and accurate.

This scorecard provides an indication to the number of points avai

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Instructions

Use the tabs at the bottom of the worksheets to navigate.

1. Fill in the 'Building Input Sheet', including general information about the project.
2. Ensure to fill out the appropriate scorecard based on the phase of the project (either Design or As Built).
3. Fill in the targeted points in the 'Points Targeted' column.
4. Conditional Requirements in the 'Greenhouse Gas Emissions' and 'Sustainable Sites' credits, and the minimum requirements in other credits, are required to be selected as 'Complies'.
5. Credits which have multiple compliance pathways are listed below. Pathways for these credits need to be selected in order to unlock the associated criteria.

Credits which have alternative compliance pathways:
• Operational Waste
• Greenhouse Gas Emissions
• Peak Electricity Demand Reduction
• Sustainable Transport
• Potable Water
• Life Cycle Impacts
• Construction and Demolition Waste

Important Notes

• Please complete all cells in WHITE only. All other cells are to be completed by the GBCA and its representatives.

• As stated in the Submission Guidelines, some criteria will be considered 'Not Applicable' for certain projects. These credits have a check box in the 'NA' column of the Scorecard. Criteria should only be selected as 'N/A' where approval has been sought by the GBCA. If a criteria is approved as 'Not Applicable', please select the relevant tick box under the 'NA' column. This will affect the total number of points available and the project's final score.

• Some credits contain multiple pathways. In these cases project teams are required to select the pathway they have chosen to follow, in doing so the relevant criteria for that pathway will be 'unlocked' within the spreadsheet.

• The total number of points within each category are indicated in the headings row at the top of the category. The number of points able to be targeted by the project is dependent on the relevant pathways selected by the project team. The numbers of points able to be targeted are shown in the totals row at the bottom of the category.

EXAMPLE: there are 22 points available in the Energy category. A maximum of 20 points are available for the 'Greenhouse Gas Emissions' credit and a maximum of 2 points are available for the 'Peak Electricity Demand Reduction' credit.

If the Prescriptive Pathway (15A) is chosen for the 'Greenhouse Gas Emissions' credit (5 points available) and the Prescriptive Pathway (16A) is chosen for the 'Peak Energy Demand' credit (1 point available), the total number of points able to be targeted by the project will be 6. However, the total number of points available in the category remains at 22 points.

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Building Input	
Name of Building:	
Address of Building:	
Postcode:	
State:	

Area Listing (GFA in m²)	
Office	
Residential	
Retail	
Healthcare	
Education	
Industrial	
Other	
Total	0

Applicant Details	
Applicant:	
Contact Person:	

Project Team Details	Company/Organisation
Acoustic Consultant	
Architect	
Building Services Engineer	
Building Surveyor	
ESD Consultant	
Landscaping Consultant	
Local Planning Authority	
Main Contractor	
Project Manager	
Quantity Surveyor	
Structural/Civil Engineer	

Project Timeline	Date (Month/Year)
Site purchase date	
Start of design	
Design completed	
Start of construction	
Practical Completion	

Building Description	
Description of building	

Green Star - Design & As Built Scorecard

Project:	0
Targeted Rating:	4 Star - Best Practice

Core Points Available	Total Score Targeted
100	50.0

NA	CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
	Management				14	
	Green Star Accredited Professional	To recognise the appointment and active involvement of a Green Star Accredited Professional in order to ensure that the rating tool is applied effectively and as intended.	1.0	Accredited Professional	1	1
	Commissioning and Tuning	To encourage and recognise commissioning, handover and tuning initiatives that ensure all building services operate to their full potential.	2.0	Environmental Performance Targets	-	
			2.1	Services and Maintainability Review	1	1
			2.2	Building Commissioning	1	1
			2.3	Building Systems Tuning	1	
			2.4	Independent Commissioning Agent	1	1
	Adaptation and Resilience	To encourage and recognise projects that are resilient to the impacts of a changing climate and natural disasters.	3.1	Implementation of a Climate Adaptation Plan	2	2
	Building Information	To recognise the development and provision of building information that facilitates understanding of a building's systems, operation and maintenance requirements, and environmental targets to enable the optimised performance.	4.1	Building Operations and Maintenance Information	1	1
			4.2	Building User Information	1	1
	Commitment to Performance	To recognise practices that encourage building owners, building occupants and facilities management teams to set targets and monitor environmental performance in a collaborative way.	5.1	Environmental Building Performance	1	
			5.2	End of Life Waste Performance	1	
	Metering and Monitoring	To recognise the implementation of effective energy and water metering and monitoring systems.	6.0	Metering	-	
			6.1	Monitoring Systems	1	1
	Construction Environmental Management	To reward projects that use best practice formal environmental management procedures during construction.	7.0	Environmental Management Plan	-	
			7.1	Formalised Environmental Management System	1	1
	Operational Waste	Performance Pathway	8A	Performance Pathway - Specialist Plan	1	1
			8B	Prescriptive Pathway - Facilities	-	
	Total				14	11
	Indoor Environment Quality				17	
☐	**Indoor Air Quality**	To recognise projects that provide high air quality to occupants.	9.1	Ventilation System Attributes	1	1
☐			9.2	Provision of Outdoor Air	2	2
☐			9.3	Exhaust or Elimination of Pollutants	1	1
☐	**Acoustic Comfort**	To reward projects that provide appropriate and comfortable acoustic conditions for occupants.	10.1	Internal Noise Levels	1	1
☐			10.2	Reverberation	1	
☐			10.3	Acoustic Separation	1	
			11.0	Minimum Lighting Comfort	-	

☐	**Lighting Comfort**	To encourage and recognise well-lit spaces that provide a high degree of comfort to users.	11.1	General Illuminance and Glare Reduction	1	1
☐			11.2	Surface Illuminance	1	1
☐			11.3	Localised Lighting Control	1	1
	Visual Comfort	To recognise the delivery of well-lit spaces that provide high levels of visual comfort to building occupants.	12.0	Glare Reduction	-	
☐			12.1	Daylight	2	
☐			12.2	Views	1	1
☐	**Indoor Pollutants**	To recognise projects that safeguard occupant health through the reduction in internal air pollutant levels.	13.1	Paints, Adhesives, Sealants and Carpets	1	1
☐			13.2	Engineered Wood Products	1	1
☐	**Thermal Comfort**	To encourage and recognise projects that achieve high levels of thermal comfort.	14.1	Thermal Comfort	1	1
☐			14.2	Advanced Thermal Comfort	1	
	Total				**17**	**12**

Energy					**22**	
	Greenhouse Gas Emissions	E. Modelled Performance Pathway	15A.0	Conditional Requirement: Prescriptive Pathway	-	
			15A.1	Building Envelope	-	
			15A.2	Glazing	-	
			15A.3	Lighting	-	
			15A.4	Ventilation and Air-conditioning	-	
			15A.5	Domestic Hot Water Systems	-	
			15A.6	Building Sealing	-	
			15A.7	Accredited GreenPower	-	
			15B.0	Conditional Requirement: NatHERS Pathway	-	
			15B.1	NatHERS Pathway	-	
			15C.0	Conditional Requirement: BASIX Pathway	-	
			15C.1	BASIX Pathway	-	
			15D.0	Conditional Requirement: NABERS Pathway	-	
			15D.1	NABERS Energy Commitment Agreement Pathway	-	
			15E.0	Conditional Requirement: Reference Building Pathway	-	
			15E.1	Comparison to a Reference Building Pathway	20	10
	Peak Electricity Demand Reduction	Performance Pathway	16A	Prescriptive Pathway - On-site Energy Generation	-	
			16B	Performance Pathway - Reference Building	2	
	Total				**22**	**10**

Transport					
				10	
Sustainable Transport	Performance Pathway	17A.1	Performance Pathway	10	5
		17B.1	Access by Public Transport	0	
		17B.2	Reduced Car Parking Provision	0	
		17B.3	Low Emission Vehicle Infrastructure	0	
		17B.4	Active Transport Facilities	0	
		17B.5	Walkable Neighbourhoods	0	
Total				10	5

Water					
				12	
Potable Water	Performance Pathway	18A.1	Potable Water - Performance Pathway	12	4
		18B.1	Sanitary Fixture Efficiency	0	
		18B.2	Rainwater Reuse	0	
		18B.3	Heat Rejection	0	
		18B.4	Landscape Irrigation	0	
		18B.5	Fire System Test Water	0	
Total				12	4

Materials					
				14	
Life Cycle Impacts	Performance Pathway - Life Cycle Assessment	19A.1	Comparative Life Cycle Assessment	6	
		19A.2	Additional Life Cycle Impact Reporting	1	
		19B.1	Concrete	0	
		19B.2	Steel	0	
		19B.3	Building Reuse	0	
Responsible Building Materials	To reward projects that include materials that are responsibly sourced or have a sustainable supply chain.	20.1	Structural and Reinforcing Steel	1	
		20.2	Timber Products	1	1
		20.3	Permanent Formwork, Pipes, Flooring, Blinds and Cables	1	1
Sustainable Products	To encourage sustainability and transparency in product specification.	21.1	Product Transparency and Sustainability	3	1
Construction and Demolition Waste	Percentage Benchmark	22A	Fixed Benchmark	-	
		22B	Percentage Benchmark	1	1
Total				14	4

Land Use & Ecology				6	
Ecological Value	To reward projects that improve the ecological value of their site.	23.0	Endangered, Threatened or Vulnerable Species	-	
		23.1	Ecological Value	3	
Sustainable Sites	To reward projects that choose to develop sites that have limited ecological value, re-use previously developed land and remediate contaminate land.	24.0	Conditional Requirement	-	
		24.1	Reuse of Land	1	1
		24.2	Contamination and Hazardous Materials	1	
Heat Island Effect	To encourage and recognise projects that reduce the contribution of the project site to the heat island effect.	25.0	Heat Island Effect Reduction	1	
Total				6	1

Emissions				5	
Stormwater	To reward projects that minimise peak stormwater flows and reduce pollutants entering public sewer infrastructure.	26.1	Reduced Peak Discharge	1	
		26.2	Reduced Pollution Targets	1	
Light Pollution	To reward projects that minimise light pollution.	27.0	Light Pollution to Neighbouring Bodies	-	
		27.1	Light Pollution to Night Sky	1	1
Microbial Control	To recognise projects that implement systems to minimise the impacts associated with harmful microbes in building systems.	28.0	Legionella Impacts from Cooling Systems	1	1
Refrigerant Impacts	To encourage operational practices that minimise the environmental impacts of refrigeration equipment.	29.0	Refrigerants Impacts	1	1
Total				5	3

Innovation				10	
Innovative Technology or Process	The project meets the aims of an existing credit using a technology or process that is considered innovative in Australia or the world.	30A	Innovative Technology or Process	10	
Market Transformation	The project has undertaken a sustainability initiative that substantially contributes to the broader market transformation towards sustainable development in	30B	Market Transformation		
Improving on Green Star Benchmarks	The project has achieved full points in a Green Star credit and demonstrates a substantial improvement on the benchmark required to achieve full points.	30C	Improving on Green Star Benchmarks		
Innovation Challenge	Where the project addresses an sustainability issue not included within any of the Credits in the existing Green Star rating tools.	30D	Innovation Challenge		
Global Sustainability	Project teams may adopt an approved credit from a Global Green Building Rating tool that addresses a sustainability issue that is currently outside the scope of this Green Star	30E	Global Sustainability		
Total				10	0

TOTALS	AVAILABLE	TARGETED
CORE POINTS	100	50.0
CATEGORY PERCENTAGE SCORE		50.0
INNOVATION POINTS	10	0.0
TOTAL SCORE TARGETED		50.0

Indoor Environment Quality				17
Indoor Air Quality	To recognise projects that provide high air quality to occupants.	9.1	Ventilation System Attributes	1
		9.2	Provision of Outdoor Air	2
		9.3	Exhaust or Elimination of Pollutants	1
Acoustic Comfort	To reward projects that provide appropriate and comfortable acoustic conditions for occupants.	10.1	Internal Noise Levels	1
		10.2	Reverberation	1
		10.3	Acoustic Separation	1
Lighting Comfort	To encourage and recognise well-lit spaces that provide a high degree of comfort to users.	11.0	Minimum Lighting Comfort	-
		11.1	General Illuminance and Glare Reduction	1
		11.2	Surface Illuminance	1
		11.3	Localised Lighting Control	1
Visual Comfort	To recognise the delivery of well-lit spaces that provide high levels of visual comfort to building occupants.	12.0	Glare Reduction	-
		12.1	Daylight	2
		12.2	Views	1
Indoor Pollutants	To recognise projects that safeguard occupant health through the reduction in internal air pollutant levels.	13.1	Paints, Adhesives, Sealants and Carpets	1
		13.2	Engineered Wood Products	1
Thermal Comfort	To encourage and recognise projects that achieve high levels of thermal comfort.	14.1	Thermal Comfort	1
		14.2	Advanced Thermal Comfort	1
Total				17

Indoor Environment Quality				17
Indoor Air Quality	To recognise projects that provide high air quality to occupants.	9.1	Ventilation System Attributes	1
		9.2	Provision of Outdoor Air	2
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Lighting Comfort	To encourage and recognise well-lit spaces that provide a high degree of comfort to users.	11.0	Minimum Lighting Comfort	-
		11.1	General Illuminance and Glare Reduction	1
		11.2	Surface Illuminance	1
		11.3	Localised Lighting Control	1
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