# Innovation Challenges

|  |  |
| --- | --- |
| Design Review Submission [ ]  | As Built Submission [ ]  |
| Initial Certification [ ]  | Recertification [ ]  |

### Project Name: [name]

### Project Number: GS- [####]

### Total Points claimed: [##]

There are 16 Innovation Challenges currently available for project teams to implement in their project. This Submission Template is required to be completed when targeting any one of these Innovation Challenges.

Please refer to the *Innovation Challenges Handbook* for full details.

|  |  |  |
| --- | --- | --- |
| Innovation Challenge | Points Available | Points Claimed |
| Affordable Housing | 1 | [ ]  |
| Building Air Tightness | 2 | [1/2] |
| Community Benefits | 1 | [ ]  |
| Contractor Education | 1 | [ ]  |
| Contribution to Industry Benchmarking | 1 | [ ]  |
| Culture, Heritage and Identity | 1 | [ ]  |
| Energy Metering Integrity | 1 | [ ]  |
| Financial Transparency | 1 | [ ]  |
| High Performance Site Offices | 1 | [ ]  |
| Integrating Healthy Environments | 1 | [ ]  |
| Local Procurement | 2 | [1/2] |
| Marketing Excellence | 1 | [ ]  |
| Occupant Engagement | 1 | [ ]  |
| Reconciliation Action Plan | 1 | [ ]   |
| Social Enterprise for Affordable Housing | 2 | [1/2] |
| Social Return on Investment | 1 | [ ]  |

## Project specific queries (Innovation, TCs and CIRs)

|  |  |
| --- | --- |
| There are no project specific queries for this Innovation Challenge claim(s). | [ ]  |
| There are project specific queries for this Innovation Challenge claim(s) and all responses received from the GBCA are attached. | [ ]  |

important notes

* **The ‘Feedback’ section of this Submission Template must be completed.**
Please ensure to complete this section (at the end of the Submission Template) and include it with your project’s Green Star submission. Please respond as best as possible, notwithstanding the stage or completion of the Innovation Challenge at the time of Green Star submission.
* Project teams must submit this Submission Template and are not permitted to use an alternative document without prior consent from the GBCA.
* For those Innovation Challenges not being claimed, the response sections (all sections beyond this point in the document) can be deleted for clarity.
* Please refer to the Innovation Challenge Handbook for full details on how to document your project’s Innovation Challenge claim.

## Affordable Housing

Demonstrate that the project contains a mix and diversity of lot sizes at an affordable purchase price for low to moderate income households.

Provide details on the partnerships established between the project’s owner and organisations dedicated to housing affordability to ensure the stock is allocated as intended.

Provide details of the rebates, free sustainability items or reductions on the recommended retail price or appliances to these occupants established under the incentive program.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

building air tightness

|  |  |  |
| --- | --- | --- |
| **Whole Building Air Tightness Test** | **1 point** is awarded where a whole building air tightness test is carried out in accordance with a recognised industry standard. | [ ]  |
| **Best Practice Air Tightness Results** | **1 additional point** is awarded where the above is achieved and the building air tightness test results demonstrate a ‘best practice’ outcome, as outlined in Table 1. | [ ]  |

### Air Tightness Testing Details

|  |  |
| --- | --- |
| The standard used for testing was: | Please select: [EN 13829:2001, ISO 9972:2006, ASTM E779-10 OR ATTMA TSL2 Non-Dwellings – October 2010] |
| The rate of air permeability achieved was: | [Enter air permeability rate] |

Provide results of the conducted whole building air testing, referencing the used standard and outcomes of the testing.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## Community Benefits

Provide the results of the needs analysis of the surrounding community. Include details of any conducted community briefings, meetings or workshops.

Provide details of the strategy for how the project will provide social/community benefits and consult with the broader community on the proposed plan.

Provide details of the implemented plan and deliver outcomes as defined by the community benefits strategy.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## Contractor Education

Confirm details of training provided to contractors and subcontractors on the core concepts of global warming, climate change and the health impacts of minimum building practices.

Confirm details of the site specific training provided that highlights the sustainable solutions of the project.

Provide details on how the training information describes the certification that is being achieved by the project, its importance and the role the contractors play in achieving it.

Provide evidence that at least 80% of all contractors and subcontractors who were present for at least three days on site received the training.

Provide evidence that the head personnel hold a qualification related to holistic sustainable practices.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## Contribution to Industry benchmarking

Outline the approach that has been taken to collate peak energy consumption data for at least 10 unique buildings.

|  |  |
| --- | --- |
| In providing this information to the GBCA, the project team acknowledges that the GBCA has the right to publish this data in an anonymised format and include with data from other industry contributors to formulate publicly available benchmarks. | [ ]  |

[Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## Culture, Heritage and Identity

Demonstrate that the building selected is recognised as a place of heritage value, as defined in the Burra Charter or through a heritage listing within a state or local register.

Demonstrate how the site is occupied or has been significantly refurbished, in such a manner as celebrates and makes visible heritage elements.

Provide evidence that information on the heritage values of the building is available to the public visitors to the site through site displays or a context aware smart phone application.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## Energy Metering Integrity

Demonstrate that the metering network (including sub-meters) has been validated in accordance with a recognised standard or practice.

Demonstrate that all meters on the network have been commissioned to a recognised standard or practice, and that meter functionality is correctly calibrated at time of practical completion.

Demonstrate that the metering network (including sub-meters) is continually and automatically monitored by a system that is able to produce alerts if any inaccuracies are found.

Demonstrate that where faults have been identified, metering network accuracy has been corrected and validated.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## financial transparency

|  |  |
| --- | --- |
| The ‘Disclosure Template’ has been completed and included in the Green Star submission in Excel format.  | [ ]  |
| The project agrees to participate in the yearly GBCA report. | [ ]  |

[Insert hyperlinks to the GBCA disclosure template]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

High Performance Site Offices

Describe the sustainability performance attributes of the high performance site office.

Provide overview details as outlined in the ‘High Performance Site Office Checklist’.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

integrating healthy environments

Provide results of the community health ‘needs analysis’ undertaken.

Outline the distribution of health issues among impacted communities.

Describe strategies to address the identified community needs. List the actions taken to enhance health-supportive features of the project, and those that could minimize potential risks to the community.

Discuss the actions that can be taken (or have been taken) within the project’s design, construction or operation that will promote health equity.

Provide details of how the selected strategies to address identified community and occupant health needs were implemented.

[Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## Local Procurement

There are two criteria available for this Innovation Challenge. Each is independent of the other.

|  |  |  |
| --- | --- | --- |
| **Local Products and Materials** | **1 point** is awarded where the project team demonstrates that a percentage of the products and materials used in the building or fitout were produced or manufactured in Australia. | [ ]  |
| **Local Services and Skilled Labour** | **1 point** is awarded where the project team demonstrates that a percentage of the services and skilled labour employed by the building or fitout come from the local area surrounding the site. | [ ]  |

Demonstrate that a percentage of the **products and materials** used in the project were produced or manufactured in Australia.

Demonstrate that a percentage of the **services and skilled labour** employed by the project come from the local area surrounding the site.

Demonstrate that this percentage is significant in comparison to industry standard.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## marketing excellence

Provide details of the performed market research into the engagement of the wider community through developed marketing information.

Describe the marketing strategy which addresses the drivers identified though the conducted research, relative to the sustainability measures implemented.

Describe how this marketing strategy was implemented, providing developed samples.

Describe how information on the benefits of sustainability was promoted in a public and prominent way within the building.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## Occupant Engagement

There are two pathways available for this Innovation Challenge.

|  |  |
| --- | --- |
| **Pathway A: Occupant Survey** | [ ]  |

Demonstrate that a pre-occupancy survey on staff or occupants has been performed.

Demonstrate that a post-occupancy survey on staff or occupants has been performed, no earlier than 6 months from practical completion

|  |  |
| --- | --- |
| **Pathway B: Connection to Nature** | [ ]  |

Provide details on the feedback provided to Dr. Peter Fisher at RMIT.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

reconciliation action plan

Discuss how the Green Star Project played a central role in the delivery of the Reconciliation Action Plan (RAP).

Provide evidence that relevant Indigenous organisations have been consulted in the development of the RAP.

Outline the structure in place to deliver the Reconciliation Action Plan, including a RAP Working Group, with a RAP Coordinator as part of the Working Group, comprising Indigenous and non-Indigenous staff members from all business areas.

Demonstrate that public reporting is undertaken to Reconciliation Australia (or equivalent body) and in the organisation’s Annual Report, or project website, to report on tangible achievements towards reconciliation goals.

Demonstrate that at least 80% of the Reconciliation Action Plan targets have been met in the first reporting cycle.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

social enterprise for Affordable housing

There are two pathways available to participate in the H4H program.

|  |  |
| --- | --- |
| **Pathway A: Commercial Property(ies)** | ☐ |

Outline the role taken in signing the project up for the H4H agreement.

Demonstrate that the commercial property that makes up the Green Star project is registered as a ‘H4H Participating Property’ agreeing to donate 0.1% of the sale price; OR

Demonstrate that the property owner has entered into a ‘H4H Participation Agreement’ agreeing to donate 0.1% of the lease income.

|  |  |
| --- | --- |
| **Pathway B: Residential Wholesale Property(ies):** | ☐ |

Outline the role taken in signing the project up for the H4H agreement.

Demonstrate that the wholesaler has sold all its residential properties that make up this Green Star project as ‘H4H Participating Properties’.

For one additional point, demonstrate that the wholesaler has made a donation of an amount equal to, or exceeding, 0.1% of the total sale price for the properties that make up the Green Star project to H4H.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

## Social Return on Investment

Provide details on the analysis of the direct costs and benefits provided by elements of the project above and beyond standard practice, or those already covered within the credits of the rating tool under which your project is registered.

Provide details on the analysis of the indirect costs and benefits provided by the project in the areas of productivity, health, crime reduction, employment, and skills development or similar.

 [Insert hyperlinks to documents that demonstrate compliance]

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

# Innovation Challenge Feedback

The purpose of this section is to provide feedback to the GBCA on the application of the Innovation Challenge(s) to your project. This feedback will be used to:

* Understand whether it is appropriate for this Innovation Challenge to be incorporated into Green Star as a credit (instead of an individual Innovation Challenge); and
* Gather information to produce case studies on the implementation of these Innovation Challenges.

Time period

What was the total time commitment from all team members (over and above standard project work) to prepare and implement this Innovation Challenge? If the time commitment was significant (i.e. over 20 hours) please provide an approximate break down.

How long did it take, from the time approval was received from the GBCA to use this Innovation Challenge, to implement the initiative rewarded by the challenge? If this took longer than a few months, please explain why this was.

## Development Type

Please provide details of the type of development the Innovation Challenge was applied to (NCC building class or building use).

|  |  |
| --- | --- |
| Project type |  |
| * Whole building
 | [ ]  |
| * Fitout
 | [ ]  |
| Major usage type (tick all that apply) |  |
| * Office
 | [ ]  |
| * Residential
 | [ ]  |
| * Industrial
 | [ ]  |
| * Hotel
 | [ ]  |
| * Retail
 | [ ]  |
| * Public Building
 | [ ]  |
| * Healthcare
 | [ ]  |
| * Education
 | [ ]  |

Please indicate the overall project size in m2 of GFA:

Benefits

Please provide details of the perceived or demonstrated benefits to the owner and project team associated with implementing this initiative. **This should form the core of the feedback provided**. Qualitative and quantitative information may be used.

As a suggestion, types of benefits might include:

* Expanding Sustainability Knowledge of the project team
* Renewed enthusiasm for implementing sustainability initiatives
* Implementing the initiative provided information to help the project team alter the project team to improve the overall sustainability outcomes
* In implementing the Innovation Challenge additional sustainability opportunities were identified for the project
* The ability to quantify some of the more intangible sustainability benefits associated with building green
* Improved user experience of the building

## Difficulties

Please provide details of the perceived or demonstrated difficulties with implementing the Innovation Challenge and provide suggestions for improvements.

Please provide commentary on any barriers that might have been faced in implementing this initiative. Potential barriers might include:

* Bureaucracy
* Cost
* Project team perceptions
* Lack of information
* Lack of team experience

If any of these challenges were faced please describe how these were overcome.

We are interested in both qualitative and quantitative feedback.

## Case Study Imagery

Please provide imagery that the GBCA can use in a Case Study about this Innovation Challenge. Appropriate images include:

* Screenshots from simulation packages
* Graphical outputs from analysis undertaken
* Photos of training
* A hero shot of a the building in question
* A photo of a heritage item retained on site

Attaching a full size image to the email which contains this feedback would be an appropriate way of providing this. Please ensure the file is labelled with then Green Star number and Innovation Challenge name.

## DISCUSSION

Outline any issues you would like to highlight and clarify with the GBCA.

## 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** –––