

# Green Star – Design & As Built Submission Template

Ensure all prompts shown in **blue text** have been responded to.

## Green Star – Design and As Built

### Credit: Materials Life Cycle impacts

Project Name: [name]

Project Number: GS-[####]

Points available: 6

Points claimed: [--]

## Material Life Cycle Impacts

The project has carried out a life cycle impact assessment to assess and reduce the environmental impacts of building materials for the whole building over its entire life.

Credit Criteria	Description	Points available	Points claimed
<b>1 Comparative Life Cycle Assessment</b>	The project has demonstrated a reduction against six environmental impacts categories when compared to the reference case.	<b>5</b>	
<b>2 Additional Life Cycle Impact Reporting</b>	The project has provided a life cycle assessment reporting of five additional impact categories.	<b>1</b>	

### 1 Reference Case Comparative LCA

- The project has undertaken a whole-of-building whole-of-life comparative LCA using the [standard practice/actual] reference case option.

#### Description of the building

[Provide summary]

#### Description of the reference case building

[Provide summary]

Impact reducing initiatives that have been included in the project design

[Provide summary]

**LCA results for the project and the reference case**

Impact category	Reference Case (one m2 GFA)	Project (one m2 GFA)	Percentage change (+/-)
Climate change (Kg CO2 equivalent)			
Stratospheric ozone depletion potential (Kg CFC 11 equivalent)			
Acidification potential of land and water (Kg SO2 equivalent)			
Eutrophication potential (kg PO4 equivalent)			
Tropospheric ozone formation potential (POCP Ethylene equivalents)			
Mineral and fossil fuel depletion (abiotic depletion) (Kg Sb equivalent)			
Total cumulative reduction (%)			

Details of the LCA Practitioner

[Provide contact details and a summary of experience]

Details of the Peer Reviewer

[Provide contact details and a summary of experience]

[Insert hyperlinks to LCA report including peer review which support these claims]

[Insert hyperlink to reference case documentation]

[Insert hyperlink to LCA practitioner competencies statement]

Therefore, as demonstrated in section 1, this project is eligible to achieve [enter number of points] points for conducting a comparative LCA and achieving a reduced environmental impact.

## 2 Additional life cycle impact reporting

The project has undertaken a whole of building whole of life LCA including reporting of additional impact categories, the following are the LCA results:

### LCA result for the project against additional impact categories

Impact category	One m <sup>2</sup> GFA
Human Toxicity (Kg 1,4 DB equivalent)	
Land use (Land Transformation m <sup>2</sup> )	
Resource depletion – water (m <sup>3</sup> water use related to local scarcity of water)	
Ionising Radiation (kg U-235 equivalent to air)	
Particulate Matter (kg PM2.5 equivalent)	

[Insert hyperlinks to documents which support these claims]

Therefore, as demonstrated in section 2, this project is eligible to achieve 1 point for reporting against a further five environmental impact categories

## Discussion

[Insert any issues you would like to highlight and clarify to the Assessment Panel.]

Author Details:

[Insert name, position and contact details of author]

[Date]

— Report end —