

A Survey of Performance Criteria Preferences in Green Building Office Projects

This questionnaire survey should not take more than 20 minutes of your time. Please provide your response based on your practical experience related to the delivery of green office projects. Your participation in this survey/interview is highly appreciated and your feedback for this survey/interview will help enrich the body of knowledge in area of sustainable development.

Yours Sincerely,
Tayyab Ahmad
PhD candidate-Architecture
The University of Melbourne
Email: ahmadt@student.unimelb.edu.au

* Required

1. Would you like to see the Consent Form and Plain Language Statement for the details of the research study? *

Mark only one oval.

- Yes, I would like to see Plain Language Statement *Skip to question 2.*
- No, I want to proceed directly to survey *Skip to question 4.*

Plain Language Statement and Consent Form

PLAIN LANGUAGE STATEMENT

Survey: Performance Criteria Preferences in Green Building Office Projects

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Project: "Project Delivery Attributes Influencing Green Building Project Performance"

Introduction

You are invited to participate in the above research project, which is being conducted by Dr. Ajibade Aibinu (**Supervisor**), Dr. Andre Stephan (**Co-Supervisor**) and Mr. Tayyab Ahmad (**PhD Student**) from the Faculty of Architecture, Building and Planning at the University of Melbourne. The aim of this study is to develop a framework for evaluating the performance outcomes of green buildings using project delivery attributes.

We are interested in talking to you about the performance criteria usually used in green building office projects.

What will I be asked to do?

As an expert in the field, if you agree to participate, you would be asked to contribute in the following ways:

You will be presented with a questionnaire comprised of questions relating the performance criteria for green building office projects. The total time of interaction will be no more than twenty minutes.

For green office projects you will be asked to:

- Highlight the priorities normally assigned to different performance criteria for green office projects.
- Highlight the factors affecting the choice of different performance criteria in such buildings.
- Indicate the influence, the current priorities of performance criteria in green office projects have on sustainable development.
- Indicate the influence different performance criteria have on each other.
- Highlight the degree to which different indicators provided in the questionnaire explain project performance on social, economic, and environmental sustainability criteria.

With your permission the interview would be digitally recorded so that we can make an accurate record of what you say. When the recording has been transcribed, you would be provided with a copy of the transcript, so that you can verify that the information is correct and/or request deletions.

How will my confidentiality be protected?

This project has been approved by the Human Research Ethics Committee and we intend to protect your anonymity and the confidentiality of your responses to the fullest possible extent, within the limits of the law. Your name and contact details will be kept in a separate, password-protected computer file from any data that you supply. This will only be able to be linked to your responses by the researchers. In the final report, if you agree, you will be referred to by a pseudonym. We will remove any references to

personal information that might allow someone to guess your identity; however, you should note that as the number of people we seek to interview is very small, it is possible that someone may still be able to identify you. The data will be kept securely in the Faculty of Architecture, Building and Planning for five years from the date of publication, and may be destroyed after this time. It is also possible that the data you provide may be used by the researchers for related research in future.

How will I receive feedback?

Once the thesis based on this research has been concluded, a brief summary of the findings will be available to you on application at the Faculty of Architecture, Building and Planning. It is also possible that the results will be presented at academic conferences and in published papers.

Do I have to take part?

Participation in this study is voluntary. Should you wish to withdraw at any stage, or to withdraw any unprocessed data you have supplied, you are free to do so without prejudice. Your decision to participate or not, or to withdraw, will not affect any relationship you may have with this department or University and will not affect any services you may receive now or in the future.

Where can I get further information?

Please contact the researchers if you have any questions or if you would like more information about the project please do not hesitate to contact the researchers at the contact details above.

If you have any concerns about the conduct of the project which you do not wish to discuss with the research team please contact the Manager, Human Research Ethics, Office for Research Ethics and Integrity, The University of Melbourne, on Ph: 8344 2073, or email address: humanethics-complaints@unimelb.edu.au.

How do I agree to participate?

If you would like to participate, please indicate that you have read and understood this information by signing the consent form.

Consent Form

1. I consent to participate in this project, the details of which have been explained to me, and I have been provided with a written plain language statement to keep.
2. I understand that after I sign and return this consent form it will be retained by the researcher.
3. I understand that my participation will involve a survey and I agree that the researcher may use the results as described in the plain language statement.
4. I acknowledge that:
 - a) The possible effects of participating in the survey have been explained to my satisfaction;
 - b) I have been informed that I am free to withdraw from the project at any time without explanation or prejudice and to withdraw any unprocessed data I have provided;
 - c) The project is for the purpose of research;
 - d) I have been informed that the confidentiality of the information I provide will be safeguarded subject to any legal requirements;
 - e) I have been informed that with my consent the answers to the questionnaire survey will be saved online (in case of online survey) / or saved in a locked cabinet at University of Melbourne (in case of paper-based survey) and may be destroyed after five years;
 - f) I will be referred to by a pseudonym, should I agree to this;
 - g) I have been informed that a copy of the research findings will be forwarded to me, should I agree to this.

2. I wish to receive a copy of the summary project report on research findings

Mark only one oval.

- Yes
 No

3. I wish to be referred to by a pseudonym in any publication from this research

Mark only one oval.

- Yes
 No

Your experience with Green Building projects

(Green projects are inclusive of the green certified and non-certified projects)

4. Please state your name *

5. Please mention your experience (no. of years) with green building delivery *

Mark only one oval per row.

	No experience	0-3 years	5-10 years	More than 10 years
Experience in all kind of green building projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience in green office projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. Please mention your experience (no. of projects) with green building delivery **Mark only one oval per row.*

	No experience	1-5 projects	6-10 projects	11-15 projects	15-20 projects	More that 20 projects
Experience in all kind of green building projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience in green office projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7. In what capacity have you majorly acted in the delivery of green office projects *

(Please mention all the major roles you previously had)

Check all that apply.

- Design Consultant
- Owner/Developer
- Supplier
- Manufacturer
- Project Manager
- Construction Manager
- Facility Manager
- General Contractor
- Specialty Contractor/Trade Contractor/Sub-Contractor
- Sustainability Consultant
- Other: _____

8. Please indicate the area (country/city) where your experience is majorly based

Interrelationships among performance criteria of Green Office projects

Cost, Quality, Schedule, and Sustainability performance are different performance outcomes of a project. These performance outcomes have indirect relationships with each other and they can be correlated. For instance, in case of a Green Office building to positively impact environmental sustainability some materials/equipment may need to be imported that may take longer than usual and impact schedule negatively. While giving your response for different questions, please consider these indirect interrelationship and also provide explanation for your answer.

For the following questions please note that:

Good Environmental Sustainability Performance means delivering projects having low emissions, more resource conservation, use of recyclable materials, etc.;

Good Social Sustainability Performance means delivering projects having better indoor air quality, healthy and more productive spaces, etc.;

Good Economic Sustainability Performance means delivering projects having lower life cycle cost, and lower operation and maintenance costs, etc.;

Good Cost Performance means delivering projects on budget or under budget;

Good Schedule Performance means delivering projects within specified time or before specified time;

Good Quality Performance means delivering projects within specified quality

Cost, Quality and Schedule Performance are limited to project construction stage; Environmental, Social and Economic Sustainability Performance involve the whole project life cycle including construction and operation stages

9. Effect of good "Environmental Sustainability Performance" on.... *

Good Environmental Sustainability Performance means delivering projects having low emissions, more resource conservation, use of recyclable materials, etc.



Mark only one oval per row.

	Highly Positive	Moderately Positive	No Effect	Moderately Negative	Highly Negative
Social Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost (on-budget) Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. Please explain the reasons behind the options selected by you *

Why the good environmental sustainability performance increases/decreases other performance criteria?

11. Effect of good "Social Sustainability Performance " on.... *

Good Social Sustainability Performance means delivering projects having better indoor air quality, healthy and more productive spaces, etc.

Mark only one oval per row.

	Highly Positive	Moderately Positive	No Effect	Moderately Negative	Highly Negative
Environmental Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Economic Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost (on-budget) Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. Please explain the reasons behind the options selected by you *

Why the good social sustainability performance increases/decreases other performance criteria?

13. Effect of good "Economic Sustainability Performance" on.... *

Good Economic Sustainability Performance means delivering projects having lower life cycle cost, and lower operation and maintenance costs, etc.

Mark only one oval per row.

	Highly Positive	Moderately Positive	No Effect	Moderately Negative	Highly Negative
Environmental Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Social Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost (on-budget) Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. Please explain the reasons behind the options selected by you *

Why the good economic sustainability performance increases/decreases other performance criteria?

15. Effect of good "Cost Performance" on.... *

Good Cost Performance means delivering projects on budget or under budget

Mark only one oval per row.

	Highly Positive	Moderately Positive	No Effect	Moderately Negative	Highly Negative
Schedule Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Social Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Economic Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16. Please explain the reasons behind the options selected by you *

Why the good cost performance increases/decreases other performance criteria?

17. Effect of good "Schedule Performance" on.... *

Good Schedule Performance means delivering projects within specified time or before specified time

Mark only one oval per row.

	Highly Positive	Moderately Positive	No Effect	Moderately Negative	Highly Negative
Cost (on-budget) Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Social Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Economic Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18. Please explain the reasons behind the options selected by you *

Why the good schedule performance increases/decreases other performance criteria?

19. Effect of good "Quality Performance" on.... *

Good Quality Performance means delivering projects within specified quality

Mark only one oval per row.

	Highly Positive	Moderately Positive	No Effect	Moderately Negative	Highly Negative
Schedule Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost (on-budget) Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Social Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Economic Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental Sustainability Performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

20. Please explain the reasons behind the options selected by you *

Why the good quality performance increases/decreases other performance criteria?

Survey conclusion

21. Comments relating survey

Please let us know your views about the survey and how this survey can be improved (non-mandatory)

